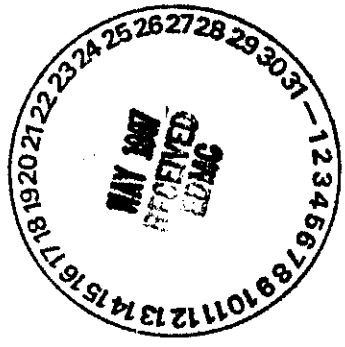
Date: May 1997	Copy No.: 145b
To: D. A. Isom	Document No.: DOE/RL-88-21
[2 REVISIONS]	Title: HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION
MSIN: H6-08	Revision Release No.: Revision 17

Section Number and Title	Remove			Insert		
	Page(s)	Rev.	Date	Page(s)	Rev.	Date
Volume 1						
Contents	1-3	16	10/96	1-3	17	05/97
2.0 Resource Conservation and Recovery Act Permitting Status	1-6	16	10/96	1-6	17	05/97
4.1.2.1 1301-N Liquid Waste Disposal Facility	1-7	5	07/21/95	1-7	7	02/25/97
4.1.2.2 1325-N Liquid Waste Disposal Facility	1-7	5	07/21/97	1-7	7	02/25/97
4.2.1.9 222-S Laboratory Complex	1-16	4	10/01/96	1-20	5	03/04/97
Volume 2						
Contents	1-3	16	10/96	1-3	17	05/97
4.2.3.1 Low-Level Burial Grounds	1-21	8	10/01/96	1-25	9	03/04/97
Volume 3						
Contents	1-3	16	10/96	1-3	17	05/97
4.5.2.1 616 Nonradioactive Dangerous Waste Storage Facility	1-14	6	10/01/96	1-14	7	03/04/97



Please update your manual with the attached pages, sign, date, and return this sheet. If you no longer require the document, please return the document, with this sheet, to the address below.

Name: DA Isom

Date: 5/21/97

Hazardous Waste Services
L4-97

Date: May 1997	Copy No.: 145a
To: D. A. Isom	Document No.: DOE/RL-88-21
[2 REVISIONS]	Title: HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION
MSIN: H6-08	Revision Release No.: Revision 17

Section Number and Title		Remove			Insert		
		Page(s)	Rev.	Date	Page(s)	Rev.	Date
Volume 1							
Contents		1-3	16	10/96	1-3	17	05/97
2.0	Resource Conservation and Recovery Act Permitting Status	1-6	16	10/96	1-6	17	05/97
4.1.2.1	1301-N Liquid Waste Disposal Facility	1-7	5	07/21/95	1-7	7	02/25/97
4.1.2.2	1325-N Liquid Waste Disposal Facility	1-7	5	07/21/97	1-7	7	02/25/97
4.2.1.9	222-S Laboratory Complex	1-16	4	10/01/96	1-20	5	03/04/97
Volume 2							
Contents		1-3	16	10/96	1-3	17	05/97
4.2.3.1	Low-Level Burial Grounds	1-21	8	10/01/96	1-25	9	03/04/97
Volume 3							
Contents		1-3	16	10/96	1-3	17	05/97
4.5.2.1	616 Nonradioactive Dangerous Waste Storage Facility	1-14	6	10/01/96	1-14	7	03/04/97

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Name: DD Isom Date: 5/21/97

Hazardous Waste Services
L4-97

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

CONTENTS

VOLUME 1 OF 3

♦ = Revised this issue.

CONTENTS (cont)

♦ = Revised this issue.

CONTENTS (cont)

VOLUME 3 OF 3

♦ = Revised this issue.

2.0 PERMITTING STATUS FOR DANGEROUS WASTE TREATMENT, STORAGE, AND/OR DISPOSAL UNITS

This section contains a permitting status table and an explanation of the contents of the table.

PERMITTING STATUS TABLE

UNIT	CO-OP	AREA	PERMIT	UNIT TYPE	PART A			PART B	CLOSURE	REV	DATE CLOSED	COMMENT	CLASS
					INITIAL	LATEST	REV						
1324-N SURFACE IMPOUNDMENT	BHI	100	A/C	T	08/01/86	06/30/94	3	11/01/86		0		C	M
105-DR SODIUM FIRE FACILITY	FDH	100	A/C	TS	11/01/85	10/01/96	3	11/01/85	03/95	2		C	M
1706-KE WASTE TREATMENT SYSTEM	FDH	100	A	TS	08/01/86	10/01/96	3	04/01/87		0		P/C	M
183-H SOLAR EVAPORATION BASINS	BHI	100	A/PC	TS	11/01/85	06/30/94	4		06/30/94	4		C	M
1301-N LIQUID WASTE DISPOSAL FACILITY	BHI	100	A/C	D	08/01/86	02/25/97	7		04/01/87	0		C	M
1325-N LIQUID WASTE DISPOSAL FACILITY	BHI	100	A/C	D	02/01/87	02/25/97	7		06/01/87	0		C	M
1324-NA PERCOLATION POND	BHI	100	A/C	TD	08/01/86	06/30/94	3		04/24/87	0		C	M
100-D PONDS	BHI	100	A/C	TD	08/01/86	06/30/94	4		03/01/93	0		C	D
221-T CONTAINMENT SYSTEMS TEST FACILITY	FDH	200W	A	T	11/01/85	10/01/96	3	11/01/85		0		P/C	D
200 WEST AREA ASH PIT DEMOLITION SITE	WHC	200W	A/C	T	11/01/85	11/04/94	4	11/01/85	10/06/94	1	10/26/95	CL	D
218-E-8 BORROW PIT DEMOLITION SITE	WHC	200E	A/C	T	11/01/85	11/04/94	4	11/01/85	10/21/94	1	10/26/95	CL	D
242-A EVAPORATOR	FDH	200E	A/B	TS	09/01/87	10/01/96	7	04/13/93				A	M
GROUT TREATMENT FACILITY	FDH	200E	A/B	TSD	09/01/87	10/01/96	5	07/24/92		2		S	M
T PLANT COMPLEX	FDH	200W	A/B	TS	12/01/87	10/01/96	6	12/19/95		0		A	M
241-Z TREATMENT AND STORAGE TANKS	FDH	200W	A/C	TS	12/01/87	10/01/96	4		12/31/96	0		A,C	M
B PLANT COMPLEX	FDH	200E	A/B	TS	12/01/87	10/01/96	5					A	M
222-S LABORATORY COMPLEX	FDH	200W	A/B	TS	10/01/96	03/04/97	5	12/21/91		0		A	M
204-AR WASTE UNLOADING STATION	FDH	200E	A/B	T	12/01/87	10/01/96	4					A	M
PUREX PLANT	FDH	200E	A/C	TS	12/01/87	10/01/96	8					A,C	M
HANFORD WASTE VITRIFICATION PLANT	FDH	200E	A/B	TS	05/01/88	10/01/96	5	10/01/91		2		S	M
200 AREA EFFLUENT TREATMENT FACILITY	FDH	200E	A/B	TS	06/26/91	10/01/96	2	08/31/93		0		A	M
WASTE RECEIVING AND PROCESSING 1	FDH	200W	A/B	TS	01/25/95	10/01/96	1	10/31/91		0		A	M
2727-S STORAGE FACILITY	WHC	200W	A/C	S	11/01/85	11/16/87	2		10/07/92	3A	06/27/95	CL	D
DOUBLE-SHELL TANK SYSTEM	FDH	200EW	A/B	TS	09/01/87	10/01/96	8	06/28/91		0		A	M
HEXONE STORAGE AND TREATMENT FACILITY	BHI	200W	A/C	TS	12/01/87	06/30/94	3		11/24/92	0		C	M

PERMITTING STATUS TABLE

UNIT	CO-OP	AREA	PERMIT	UNIT TYPE	PART A			PART B	CLOSURE	REV	DATE CLOSED	COMMENT	CLASS
					INITIAL	LATEST	REV						
2727-WA SRE SODIUM STORAGE BUILDING	FDH	200W	A	S	12/01/87	10/01/96	1					P/C	M
PUREX STORAGE TUNNELS	FDH	200E	A/B	S	12/01/87	10/01/96	5	07/26/96		3		A	M
224-T TRANSURANIC WASTE STORAGE AND ASSAY FACILITY	FDH	200W	A/B	S	12/01/87	10/01/96	6	06/30/92		0		A	M
CENTRAL WASTE COMPLEX	FDH	200W	A/B	TS	05/01/88	10/01/96	4	10/31/91		0		A	M
SINGLE-SHELL TANK SYSTEM	FDH	200W	A/C	TS	02/01/88	10/01/96	4		09/30/89	Draft		A,C	M
207-A SOUTH RETENTION BASIN	FDH	200E	A/C	S	02/26/90	10/01/96	2					C	M
LIQUID EFFLUENT RETENTION FACILITY	FDH	200E	A/B	S	02/26/90	10/01/96	5	06/26/91		0		A	M
241-CX TANK SYSTEM	BHI	200E	A/C	S	07/10/90	06/30/94	3					C	M
LOW-LEVEL BURIAL GROUNDS	FDH	200EW	A/B	D	10/01/96	03/04/97	9	12/29/89		0		A	M
216-S-10 POND AND DITCH	BHI	200W	A/C	D	02/01/87	06/30/94	3		06/01/87	0		C	M
2101-M POND	WHC	200E	A/C	D	08/01/86	11/16/87	2		07/01/94	2A	10/26/95	CL	D
216-A-29 DITCH	BHI	200E	A/C	TD	08/01/86	06/30/94	3		04/01/87	0		C	M
216-B-3 MAIN POND	BHI	200E	A/C	TD	08/01/86	06/30/94	5					C	M
216-B-63 TRENCH	FDH	200E	A/C	TD	08/01/86	10/01/96	3		04/01/87	0		C	M
216-A-10 CRIB	BHI	200E	A/C	D	08/01/87	06/30/94	3					C	M
216-U-12 CRIB	BHI	200W	A/C	D	08/01/87	06/30/94	3					C	M
216-A-36B CRIB	BHI	200E	A/C	D	02/01/88	06/30/94	1		02/01/88	0		C	M
216-A-37-1 CRIB	BHI	200E	A/C	D	02/26/90	06/30/94	2					C	M
216-B-3 EXPANSION PONDS	WHC	200E	A/C	TD	12/16/93	12/16/93	0		10/31/94	2	06/27/95	CL	M
3718-F ALKALI METAL TREATMENT AND STORAGE AREA	FDH	300	A/C	TS	11/01/85	10/01/96	4	11/06/85	11/20/95	2		C	M
324 PILOT PLANT	PNNL	300	A	T	11/01/85	05/19/88	3	11/01/85		0		P/C	M
304 CONCRETION FACILITY	WHC	300	A/C	TS	08/01/86	06/21/90	4		11/30/93	2	11/30/95	CL	M
300 AREA SOLVENT EVAPORATOR	WHC	300	A/C	TS	11/01/85	03/27/90	4		09/24/92	3B	06/27/95	CL	M
300 AREA WASTE ACID TREATMENT SYSTEM	FDH	300	A/C	TS	09/01/87	10/01/96	5		03/96	1		C	M
303-M OXIDE FACILITY	FDH	300	A/C	T	05/01/88	10/01/96	1					C	M
325 HAZARDOUS WASTE TREATMENT UNITS	PNNL	300	A/B	TS	05/01/88	12/02/94	3	06/24/92		0		A	M

PERMITTING STATUS TABLE

UNIT	CO-OP	AREA	PERMIT	UNIT TYPE	PART A			PART B	CLOSURE	REV	DATE CLOSED	COMMENT	CLASS
					INITIAL	LATEST	REV						
BIOLOGICAL TREATMENT TEST FACILITIES	PNNL	300	A	T	05/01/88	05/19/88	0					P/C	M
PHYSICAL & CHEMICAL TREATMENT TEST FACILITIES	PNNL	300	A	TS	05/01/88	06/14/91	1				05/13/96	P/C	M
THERMAL TREATMENT TEST FACILITIES	PNNL	300	A	T	05/01/88	05/19/88	0				05/13/96	P/C	M
311 TANKS (INCORPORATED INTO 300 AREA WASTE ACID TREATMENT SYSTEM, REV. 3)	WHC	300											
303-K STORAGE UNIT	FDH	300	A/C	S	08/01/87	10/01/96	5		12/17/93	2		C	M
305-B STORAGE FACILITY	PNNL	300	A/B	S	05/01/88	12/20/90	1	04/03/92		2		A	M
332 STORAGE FACILITY	PNNL	300	A	S	05/01/88	05/19/88	0					P/C	M
300 AREA PROCESS TRENCHES	BHI	300	A/PC	D	11/01/85	05/25/95	4		05/25/95	4		C	M
437-MASF	FDH	400	A	T	11/01/85	10/01/96	3	11/01/85		0		A	M
4843 ALKALI METAL STORAGE FACILITY	FDH	400	A/C	S	09/01/87	10/01/96	3		09/95	1		C	M
SODIUM STORAGE FACILITY AND SODIUM REACTION FACILITY	FDH	400	A/B	TS	05/01/95	10/01/96	1					A	M
HANFORD PATROL ACADEMY DEMOLITION SITES	WHC	600	A/C	T	11/01/85	12/15/94	4	11/01/85	12/15/94	1	10/26/95	CL	D
616 NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY	FDH	600	A/B	S	10/01/96	03/04/97	7	10/31/91		2		A	D
600 AREA PURGEWATER STORAGE AND TREATMENT FACILITY	FDH	600	A/B	TS	02/20/90	10/01/96	2					A	M
NONRADIOACTIVE DANGEROUS WASTE LANDFILL	BHI	600	A/C	D	11/01/85	06/30/94	4	11/06/85	09/30/90	0		C	D
SIMULATED HIGH-LEVEL WASTE SLURRY TREATMENT/STORAGE	PNNL	3000	A/C	TS	05/01/88	08/12/94	2		11/07/94	6A	09/06/95	CL	M

EXPLANATION OF PERMITTING STATUS TABLE

UNIT — Name of treatment, storage, and/or disposal (TSD) unit that is designated for permitting as part of the Hanford Facility (EPA/State Identification Number WA7890008967).

CO-OP — Co-operator with the U.S. Department of Energy, Richland Operations Office:

- BHI -- Bechtel Hanford, Inc.
- FDH -- Fluor Daniel Hanford, Inc.
- PNNL -- Pacific Northwest Laboratory.
- WHC -- Westinghouse Hanford Company.

AREA — The area of the Hanford Facility in which the unit is located:

- 100 -- 100 Area
- 200E -- 200 East Area
- 200W -- 200 West Area
- 200EW -- Parts of a TSD unit are located in both the 200 East and the 200 West Areas
- 300 -- 300 Area
- 400 -- 400 Area
- 500 -- Unused designation
- 600 -- 600 Area
- 3000 -- 3000 Area

PERMIT — Type of permit application that is required to obtain the desired type of permit:

- A -- Part A
- B -- Part B
- C -- Closure plan
- PC -- Postclosure plan.

UNIT TYPE

- T -- Treatment
- S -- Storage
- D -- Disposal.

EXPLANATION OF PERMITTING STATUS TABLE (cont)

INITIAL	Date the initial Part A permit application was submitted to the Washington State Department of Ecology: 08/01/88 -- month/day/year.
LATEST	Date the latest Part A permit application was submitted to the Washington State Department of Ecology:
REV	Last revision of the Part A permit application.
PART B	Date the last Part B permit application was submitted to the Washington State Department of Ecology: 08/01/88 -- month/day/year.
CLOSURE	Date the last closure or postclosure plan permit application was submitted to the Washington State Department of Ecology: 08/01/88 -- month/day/year.
REV	Revision of Part B or closure plan.
COMMENTS	A Active TSD unit. C TSD unit closing under interim status. CL Unit is closed. S Standby. P/C Procedural closure.
CLASS	M Mixed waste TSD unit. D Dangerous waste TSD unit.

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 character/inch).

FORM **3**

DANGEROUS WASTE PERMIT APPLICATION

1. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 9 9 6 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (mo., day, & yr.)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

[X] 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO.	DAY	YR.
0 3	2 2	4 3

* FOR EXISTING FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*
*The date construction of the Hanford Facility commenced.

[ ] 2. NEW FACILITY *(Complete item below)*

MO.	DAY	YR.

FOR NEW FACILITIES, PROVIDE THE DATE *(mo., day, & yr)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

[ ] 1. FACILITY HAS AN INTERIM STATUS PERMIT

[X] 2. FACILITY HAS A FINAL PERMIT

III. PROCESSES - CODES AND CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the *(Section III-C)*.

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D80	GALLONS OR LITERS
LANDFILL	D81	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D82	*ACRES OR HECTARES*
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING SECTION III *(shown in line numbers X-1 and X-2 below)*: *A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons.* The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY 1. AMOUNT *(specify)*	B. 2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY 1. AMOUNT *(specify)*	B. 2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	D 8 1	4,320,000	U		7				
2					8				
3					9				
4					10				

Continued from the front.

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

D81

The 1301-N Liquid Waste Disposal Facility (LWDF) was used from 1963 to September 1985. The LWDF received mixed process and cooling waste water from N Reactor. The LWDF also received dangerous waste generated from laboratories, and may have received waste from spills within the N Reactor Building, which were discharged through the mixed waste drain system. The dangerous waste discharges consisted of less than 0.002% of the total volume of the waste discharged to the LWDF. The 1301-N LWDF was a percolation unit designed for the disposal of liquid waste through the soil column. The process design capacity for the LWDF was 16,352,900 liters (4,320,000 gallons) a day. The process design capacity reflects the maximum volume of water discharged on a daily basis rather than the physical capacity of the unit. The influent pipes up to the face of the 105-N building facility are considered to be included within the treatment, storage, and disposal unit boundary.

IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER - Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE
POUNDS	P
TONS	T

METRIC UNIT OF MEASURE	CODE
KILOGRAMS	K
METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2			T 0 3 D 8 0	*included with above*

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*

W	A	7	8	9	0	0	0	8	9	6	7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(If a code is not entered in D(1))*
1	F003	6,200	P	D81	Percolation
2	D002	20,600	P	D81	Percolation
3	D006	100	P	D81	Percolation
4	D007	10,000	P	D81	Percolation
5	D008	150	P	D81	Percolation
6	D009	6,200	P	D81	Percolation
7	WC02	4,000	P	D81	Percolation
8	WT02	15,000	P	D81	Included with above
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

Continued from the front.

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The 1301-N LWDF was used for the disposal of liquid waste from N Reactor. The waste consisted of waste from nonspecific sources and listed waste (F003), toxicity characteristic waste (D006, D007, D008, and D009), characteristic waste (D002), state-only carcinogenic waste (WC02), and state-only toxic waste (WT02).

. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawings and photos.

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*

VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	John D. Wagoner	2/25/97

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

John D. Wagoner 2/25/97

Owner/Operator
John D. Wagoner, Manager
U.S. Department of Energy
Richland Operations Office

Date

R M L 2/27/97

Co-operator
R. Michael Little, President
Bechtel Hanford, Inc.

Date

1301-N Crib
46°40'36.334"
119°33'49.867"
E9506046.1
TSD Unit Boundary
1301-N Crib
105-N
109-N
0 165 330 495 660 Feet
0 50 100 150 200 Meters
1301-N Crib
100 N
200-W
200-E
300 Area
Hanford Site

1301-N LIQUID WASTE DISPOSAL FACILITY

CRIB OUTFALL

8605087-8CN

TRENCH CONCRETE COVER

46°40'36.334"
119°33'48.867"

8605087-15CN
(PHOTOS TAKEN 1986)

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 character/inch).

FORM **3**

DANGEROUS WASTE PERMIT APPLICATION

1. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

[X] 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

[ ] 2. NEW FACILITY *(Complete item below)*

MO.	DAY	YR.	FOR EXISTING FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*
0 3	2 2	4 3	*The date construction of the Hanford Facility commenced.

MO.	DAY	YR.	FOR NEW FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

[X] 1. FACILITY HAS AN INTERIM STATUS PERMIT

[X] 2. FACILITY HAS A FINAL PERMIT

III. PROCESSES - CODES AND CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the *(Section III-C)*.

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D80	GALLONS OR LITERS
LANDFILL	D81	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D82	*ACRES OR HECTARES*
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U

UNIT OF MEASURE	UNIT OF MEASURE CODE
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H

UNIT OF MEASURE	UNIT OF MEASURE CODE
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING SECTION III *(shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons.* The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY 1. AMOUNT *(specify)*	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY 1. AMOUNT *(specify)*	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY
X-1	S 0 2	600	Q		5				
X-2	T 0 3	20	E		6				
1	D 8 1	4,320,000	U		7				
2					8				
3					9				
4					10				

Continued from the front.

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

D81

The 1301-N Liquid Waste Disposal Facility (LWDF) was used from 1963 to September 1985. The LWDF received mixed process and cooling waste water from N Reactor. The LWDF also received dangerous waste generated from laboratories, and may have received waste from spills within the N Reactor Building, which were discharged through the mixed waste drain system. The dangerous waste discharges consisted of less than 0.002% of the total volume of the waste discharged to the LWDF. The 1301-N LWDF was a percolation unit designed for the disposal of liquid waste through the soil column. The process design capacity for the LWDF was 16,352,900 liters (4,320,000 gallons) a day. The process design capacity reflects the maximum volume of water discharged on a daily basis rather than the physical capacity of the unit. The influent pipes up to the face of the 105-N building facility are considered to be included within the treatment, storage, and disposal unit boundary.

IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER - Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2			T 0 3 D 8 0	Included with above

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1	F003	6,200	P	D81	Percolation
2	D002	20,600	P	D81	Percolation
3	D006	100	P	D81	Percolation
4	D008	150	P	D81	Percolation
5	D009	6,200	P	D81	Percolation
6	WC02	4,000	P	D81	Percolation
7	WT02	15,000	P	D81	Included with above
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

Continued from the front.

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The 1325-N LWDF was used for the disposal of liquid waste from N Reactor. The waste consisted of waste from nonspecific sources and listed waste (F003), toxicity characteristic waste (D006, D008, and D009), characteristic waste (D002), state-only carcinogenic waste (WC02), and state-only toxic waste (WT02).

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawings and photos.

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*

VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER			2. PHONE NO. *(area code & no.)*
3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	John D. Wagoner	2/25/97

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

John D. Wagoner 2/25/97

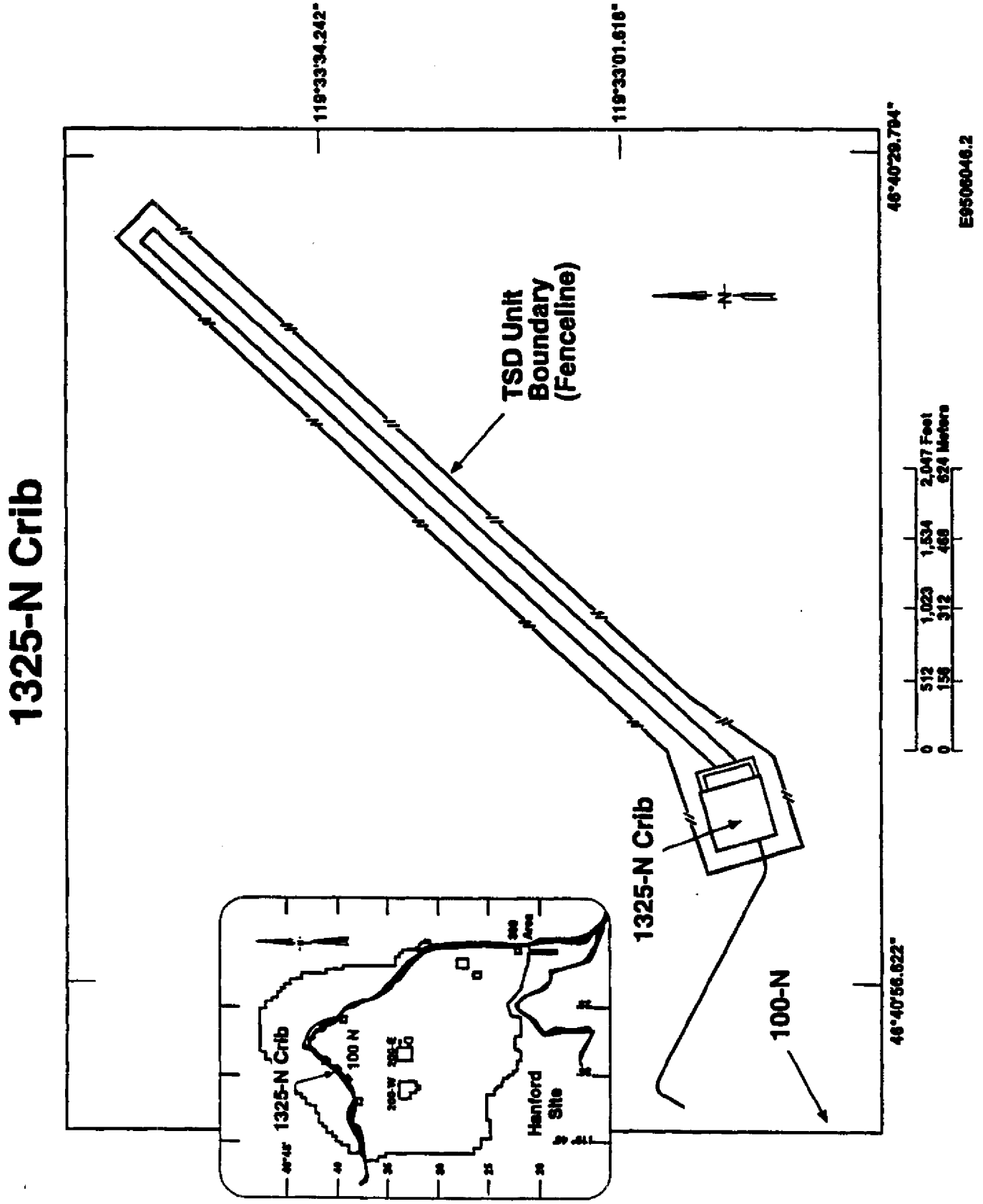
Owner/Operator
John D. Wagoner, Manager
U.S. Department of Energy
Richland Operations Office

Date

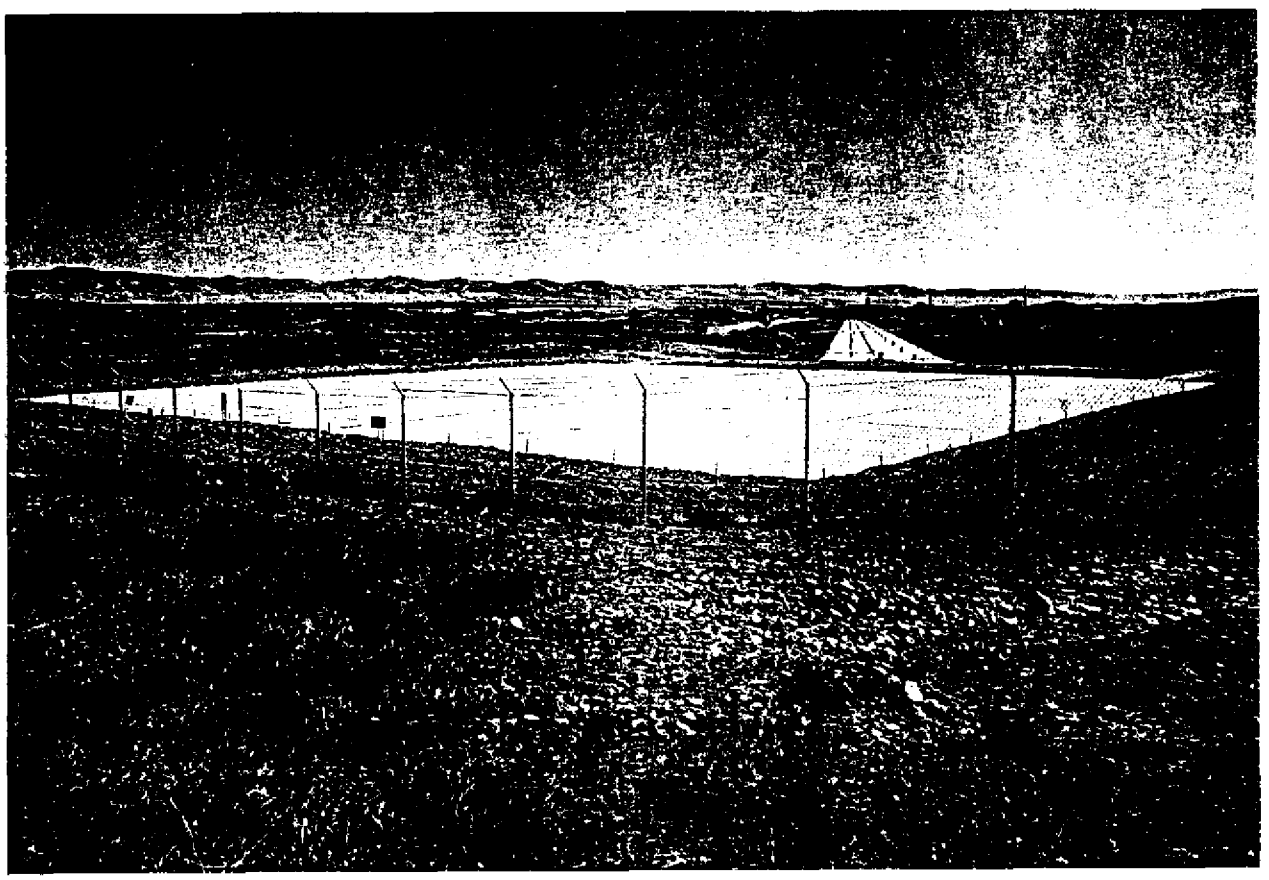
RM Little 2/7/97

Co-operator
R. Michael Little, President
Bechtel Hanford, Inc.

Date


1325-N Crib
119°33'34.242"
119°33'01.618"
46°40'29.784"
46°40'56.622"
TSD Unit Boundary (Fenceline)
N
1325-N Crib
100-N
0 512 1,023 1,534 2,047 Feet
0 156 312 468 624 Meters
E9506046.2
1325-N Crib
100 N
200 W Area
200 E Area
Hanford Site

1325-N CRIB



46°40'56.622"
46°40'29.794"
119°33'01.618"
119°33'34.242"

8605087-6CN
(PHOTO TAKEN 1986)

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 character/inch).

FORM **3**

DANGEROUS WASTE PERMIT APPLICATION

1. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO. 0 3 | DAY 2 2 | YR. 4 3 * FOR EXISTING FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

* The date construction of the Hanford Facility commenced.

☐ 2. NEW FACILITY *(Complete item below)*

MO. | DAY | YR. FOR NEW FACILITIES, PROVIDE THE DATE, *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☒ 2. FACILITY HAS A FINAL PERMIT

III. PROCESSES - CODES AND CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the *(Section III-C)*.

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D80	GALLONS OR LITERS
LANDFILL	D81	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D82	*ACRES OR HECTARES*
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING SECTION III *(shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons.* The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY 1. AMOUNT *(specify)*	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY 1. AMOUNT *(specify)*	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	S 0 2	37,200	L		7				
2	T 0 1	780	V		8				
3	S 0 1	6,200	L		9				
4					10				

Continued from the front.

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

Refer to following page

IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER - Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
X-1	K 0 6 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2			T 0 3 D 8 0	*Included with above*

FORM 3 DANGEROUS WASTE PERMIT APPLICATION
U.S. ENVIRONMENTAL PROTECTION AGENCY/STATE IDENTIFICATION NUMBER WA7890008967

Section III.C., Description of Process Codes Listed in Section III.A.

The 222-S Laboratory Complex (222-S) is located in the 200 West Area of the Hanford Facility and began waste management operations in June of 1951. The 222-S consists of three waste management units, 219-S Waste Handling Facility, 222-S Dangerous and Mixed Waste Storage Area, and Room 2-B. The 222-S waste management units receive and manage various waste types from onsite generating and/or treatment, storage, and/or disposal units, and offsite generators.

S02, T01 - The 219-S Waste Handling Facility is located northeast of the 222-S Analytical Laboratory Building. The 219-S Waste Handling Facility contains four stainless steel tanks: Tanks 101 [15,000 liters (4,000 gallons)], 102 [15,000 liters (4,000 gallons)], 103 [6,000 liters (1,500 gallons)], and 104 [7,200 liters (1,900 gallons)]. These tanks are located in a belowground concrete vault (S02). Tank 103 will be used until tank 104 is in place, at which time tank 103 will be drained and closed. Tanks 101 and 104 are used for primary and backup storage of mixed waste from the 222-S Analytical Laboratory. The mixed waste is transferred from tanks 101 and 104 to tank 102 for treatment (T01) and storage before transfer to the Double-Shell Tank (DST) System. The mixed waste is treated in tank 102 with sodium hydroxide (NaOH) to a pH greater than or equal to 12.0 and with sodium nitrite ($NaNO_2$) to a concentration of 600 parts per million. This treatment process makes the mixed waste more amenable for storage in the DST System. The maximum process design capacity for tank storage for tanks 101, 102, and 104 is 37,200 liters (9,827 gallons). The maximum process design capacity for tank treatment for tank 102 is 780 liters (206 gallons) per day [284,000 liters (75,000 gallons) per year].

S01 - The 222-S Dangerous and Mixed Waste Storage Area is located on the north side of the 222-S Analytical Laboratory Building. The 222-S Dangerous and Mixed Waste Storage Area consists of two metal storage structures resting on a concrete pad. The 222-S Dangerous and Mixed Waste Storage Area stores various-sized approved containers or other approved packages and overpacks of mixed waste and nonradioactive dangerous waste (S01). The containers are stored at the 222-S Dangerous and Mixed Waste Storage Area until transferred to an onsite treatment, storage, and/or disposal (TSD) unit or offsite TSD facility. The maximum process design capacity for container storage in the 222-S Dangerous and Mixed Waste Storage Area is 3,700 liters (977 gallons) [57 liters (15 gallons) of liquids per container].

A portion of Room 2-B, located within the 222-S Analytical Laboratory Building, provides for container storage of liquid mixed waste to be transfered to the 219-S Waste Handling Facility. The maximum process design capacity for container storage in Room 2-B is 2,500 liters (660 gallons).

The total container storage process design capacity for the 222-S Laboratory Complex is 6,200 liters (1,637 gallons).

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D001	283,955	K	S02 T01	Storage - Tank/Treatment - Tank
2	through				
3	D011				
4	D018				
5	D019				
6	D022				
7	D028				
8	through				
9	D030				
10	D033				
11	through				
12	D036				
13	D038				
14	through				
15	D041				
16	D043				
17	WP01				
18	WP02				
18	WT01				
20	WT02				
21	F001				
22	through				
23	F005				
24	F039				Included With Above
25					
26					

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
1	D001	7,200	K	S01	Storage - Container
2	through				
3	D043				
4	WSC2				
5	WT01				
6	WT02				
7	WP01				
8	through				
9	WP03				
10	W001				
11	F001				
12	through				
13	F005				
14	F020				
15	through				
16	F023				
17	F026				
18	through				
19	F028				
20	F039				
21	U001				
22	through				
23	U012				
24	U014				
25	through				
26	U039				

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
1	U041		K	S01	Storage - Container (Continued)
2	through				
3	U053				
4	U055				
5	through				
6	U064				
7	U066				
8	through				
9	U099				
10	U101				
11	through				
12	U103				
13	U105				
14	through				
15	U194				
16	U196				
17	U197				
18	U200				
19	through				
20	U223				
21	U225				
22	through				
23	U228				
24	U232				
25	through				
26	U240				

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
1	U243		K	S01	Storage - Container (Continued)
2	through				
3	U249				
4	U328				
5	U353				
6	U359				
7	P001				
8	through				
9	P018				
10	P020				
11	through				
12	P024				
13	P026				
14	through				
15	P031				
16	P033				
17	P034				
18	P036				
19	through				
20	P051				
21	P054				
22	P056				
23	through				
24	P060				
25	P062				
26	P063				

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
1	P064		K	S01	Storage - Container (Continued)
2	through				
3	P078				
4	P081				
5	P082				
6	P084				
7	P085				
8	P087				
9	P088				
10	P089				
11	P092				
12	through				
13	P099				
14	P101				
15	through				
16	P116				
17	P118				
18	through				
19	P123				Included With Above
20					
21					
22					
23					
24					
25					
26					

Continued from the front.

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

Mixed waste from the 222-S Laboratory Building operations, including Room 2-B, flows by gravity to the 219-S Waste Handling Facility for treatment and/or storage before transfer to the DST System. Before transfer to the 219-S Waste Handling Facility, liquid mixed waste from Room 2-B is identified through process knowledge and/or sample results.

In the 219-S Waste Handling Facility, the mixed waste is considered corrosive because of the presence of nitric acid before treatment and sodium hydroxide following treatment. Treated mixed waste transferred to the DST System consists of characteristic waste, toxicity characteristic waste, state-only waste, and spent halogenated and nonhalogenated solvent waste. Multi-source leachate is included as a waste derived from nonspecific source waste. Before transfer, sodium nitrite is added to the mixed waste for corrosion protection of the DST System.

The approved containers or other approved packages and/or overpack containers of waste are stored in two metal storage structures located on a concrete pad until transferred to an onsite TSD unit or offsite TSD facility. The contents of the containers are identified through process knowledge and sample results. The containers hold characteristic waste, toxicity charateristic waste, spent halogenated and nonhalogenated solvent waste, nonspecific source waste, discarded polychlorinated biphenyl waste, and state-only waste.

In Room 2-B, liquid mixed waste in from approved containers, approved packages, and/or overpack containers are stored within the TSD boundary of Room 2-B before transfer to the 219-S Waste Handling Facility. The contents of the containers are identified through process knowledge and/or sample results. The containers hold characteristic waste, toxicity charateristic waste, spent halogenated and nonhalogenated solvent waste, and state-only waste.

V. FACILITY DRAWING Refer to attached drawing(s).

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS Refer to attached photograph(s).

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawing(s) and photograph(s).

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*

VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*		
3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	John D. Wagoner	3/4/97

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

John D. Wagoner

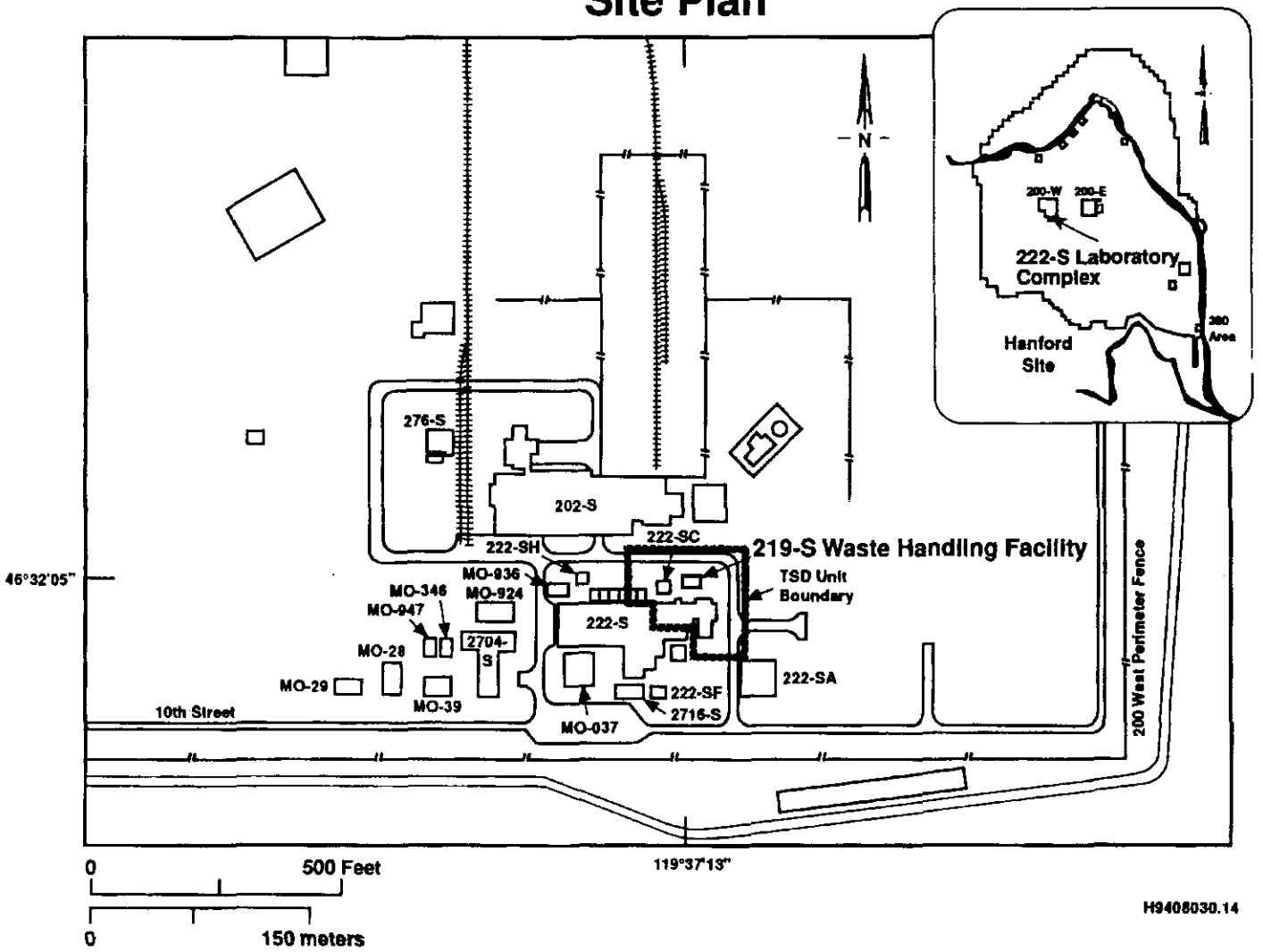
Owner/Operator
John D. Wagoner, Manager
U.S. Department of Energy
Richland Operations Office

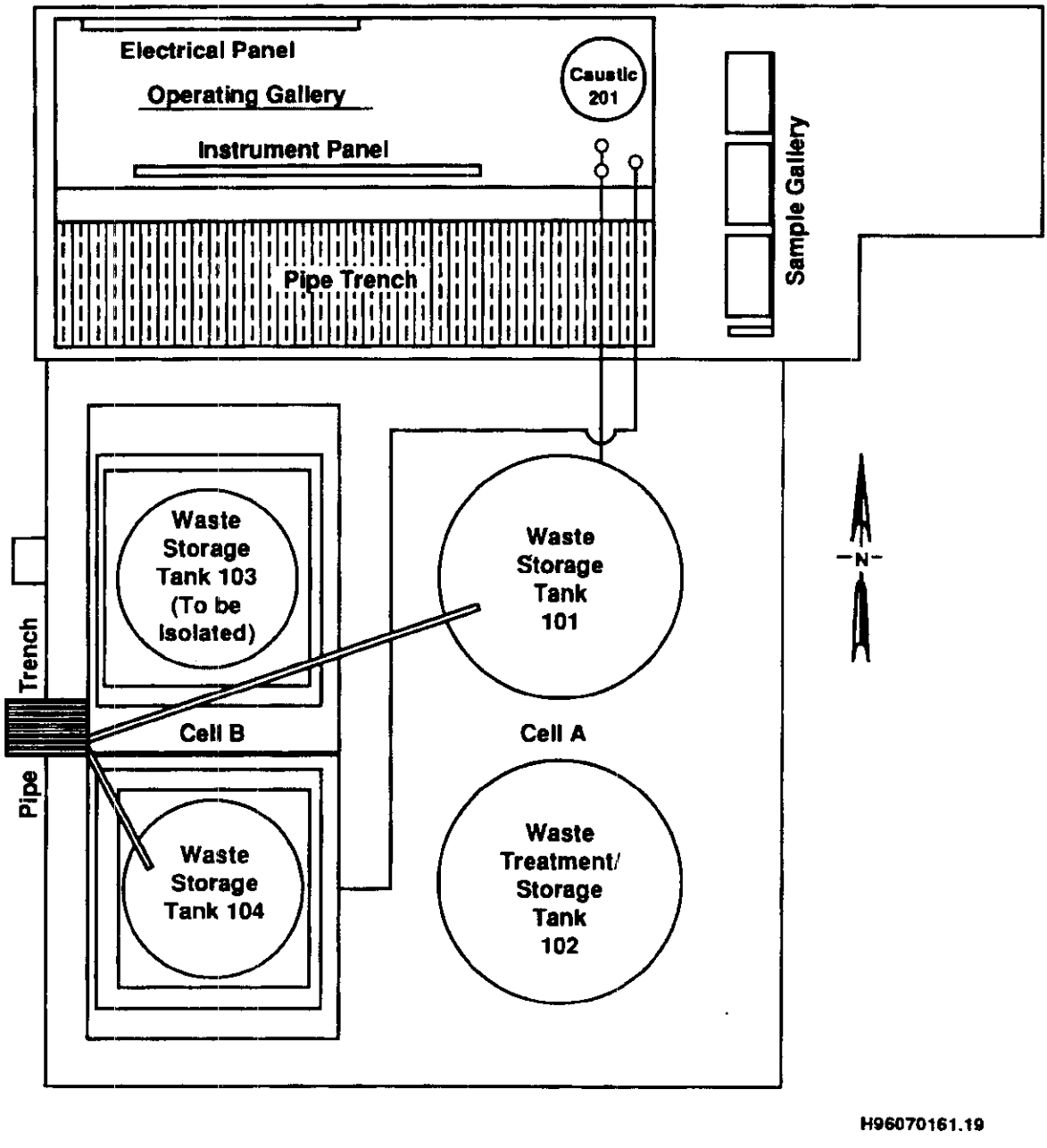
3/4/97
Date

Co-operator
H. J. Hatch,
President and Chief Executive Officer
Fluor Daniel Hanford, Inc.

3/3/97
Date

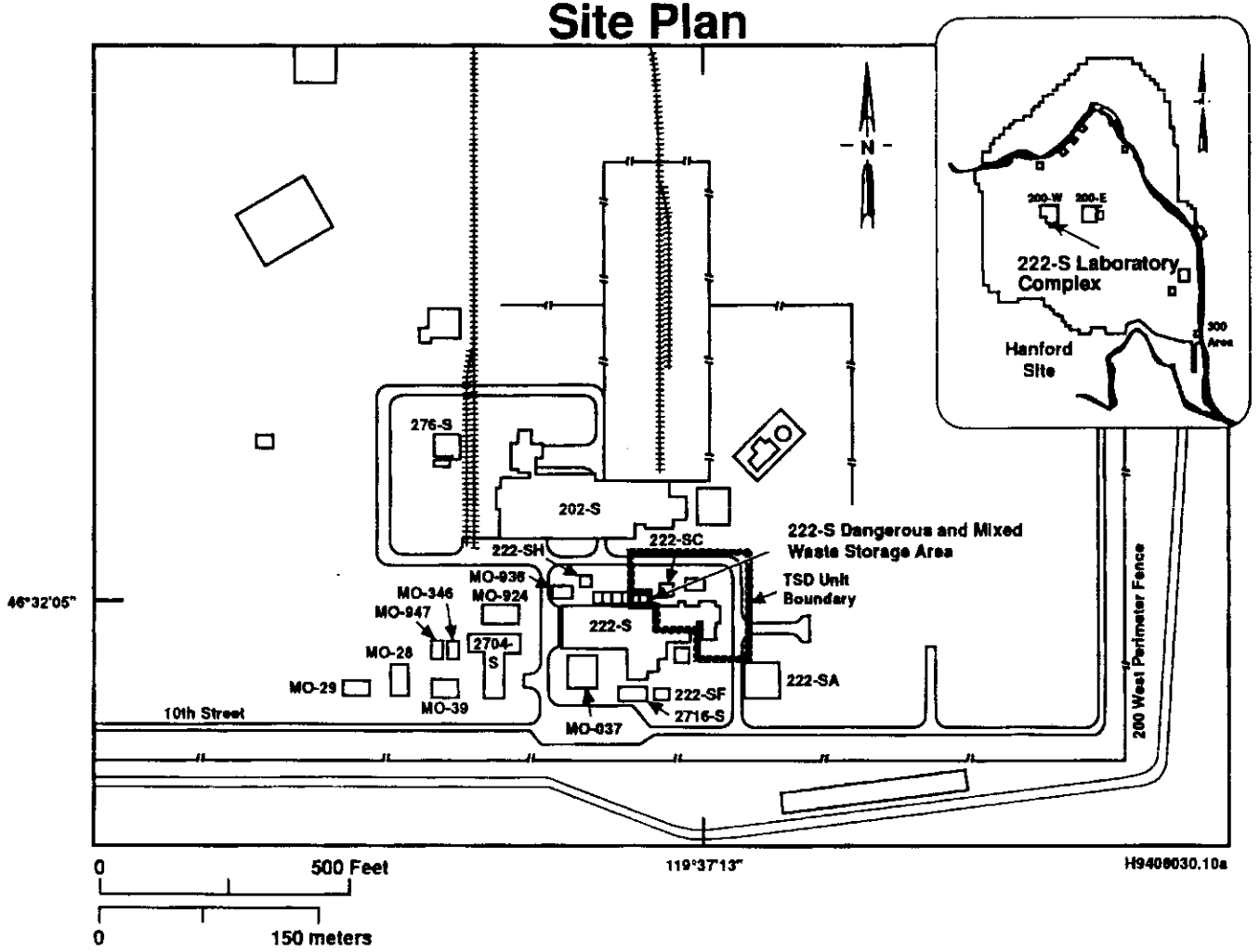
222-S Laboratory Complex
219-S Waste Handling Facility Tanks 101, 102, 103, and 104
Site Plan



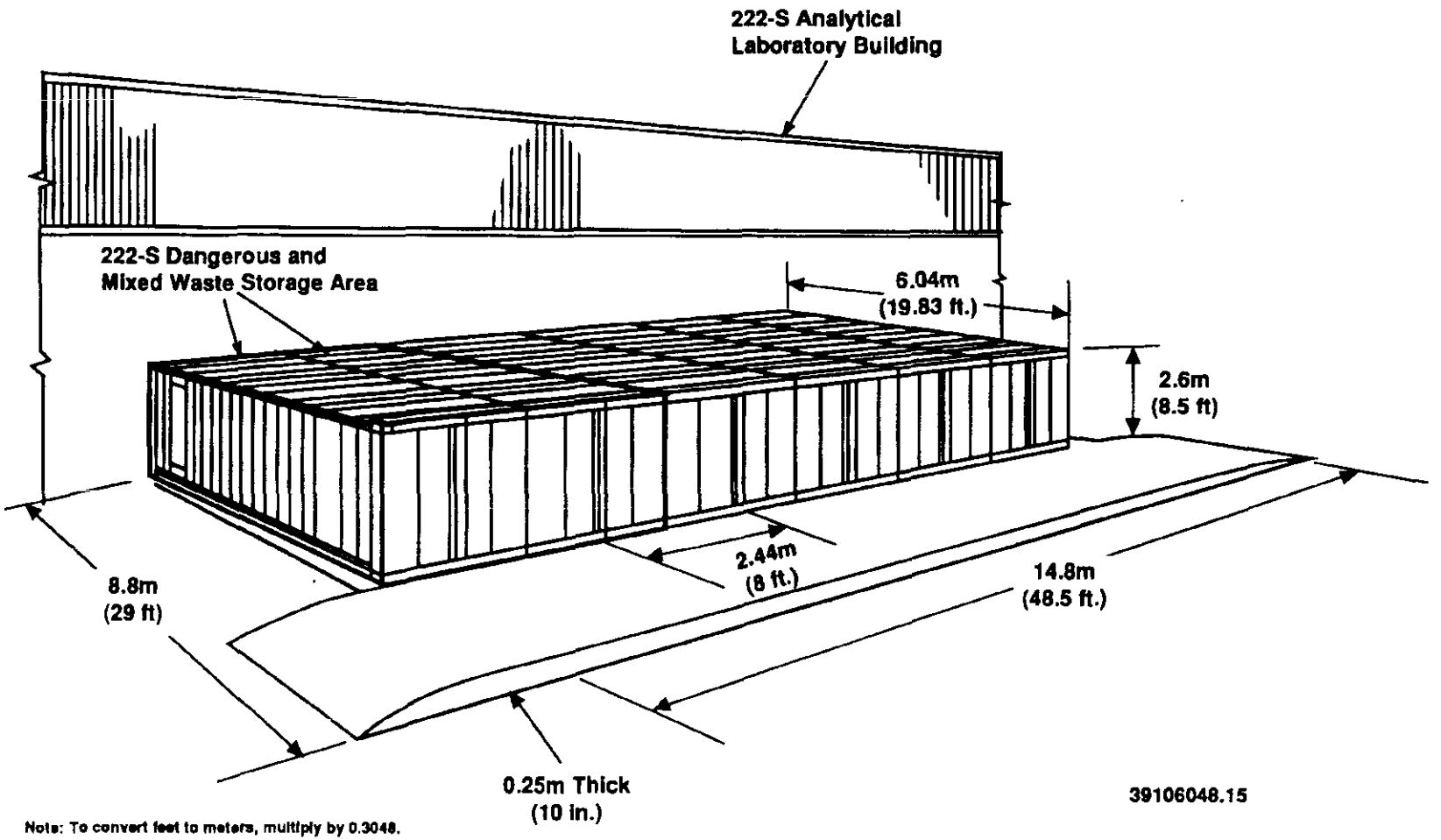


219-S Waste Handling Facility

222-S Laboratory Complex
222-S Dangerous and Mixed Waste Storage Area
Site Plan

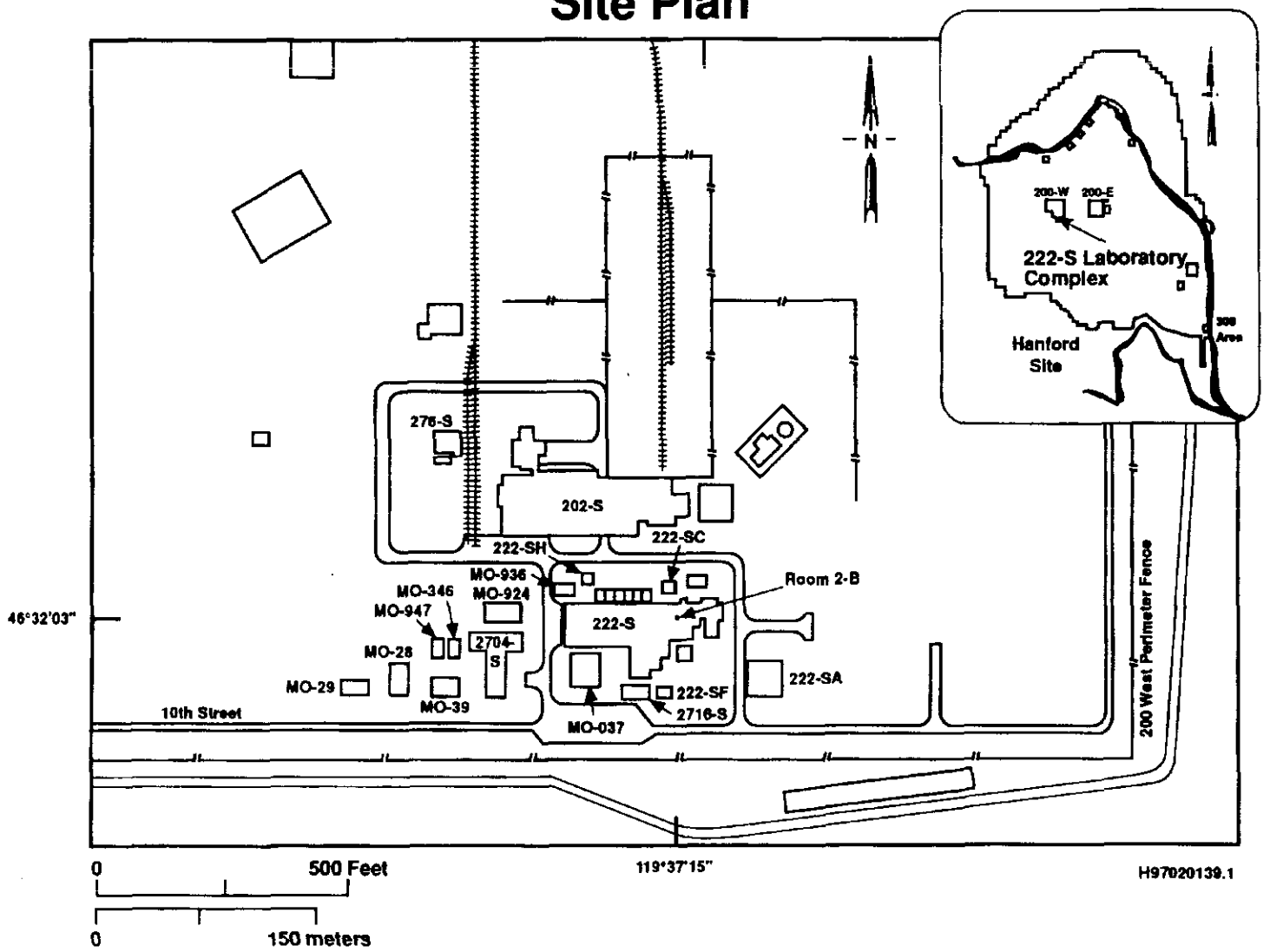


222-S Laboratory Complex

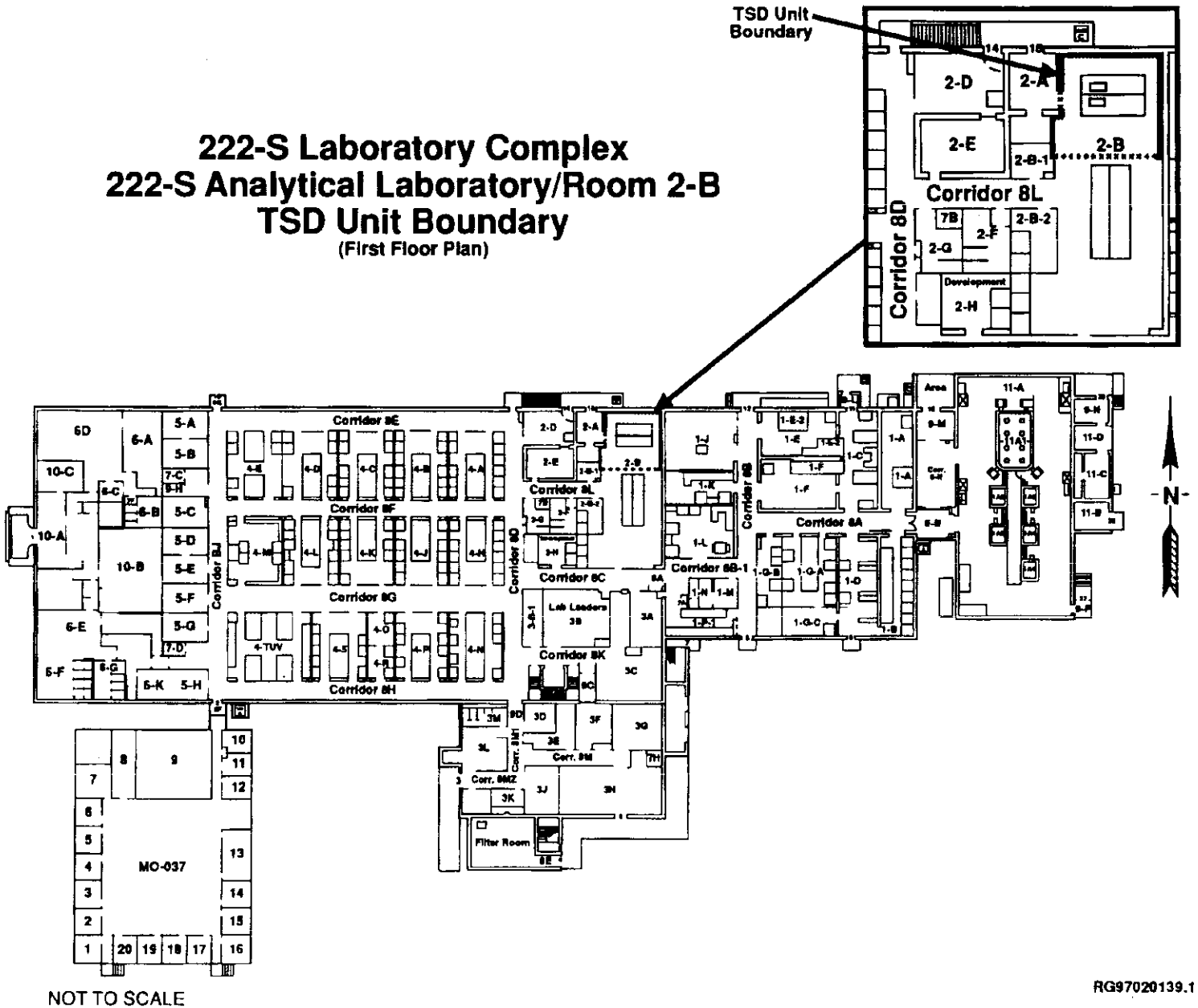


Note: To convert feet to meters, multiply by 0.3048.
To convert inches to centimeters, multiply by 2.54.

222-S Laboratory Complex
222-S Analytical Laboratory/Room 2-B
Site Plan



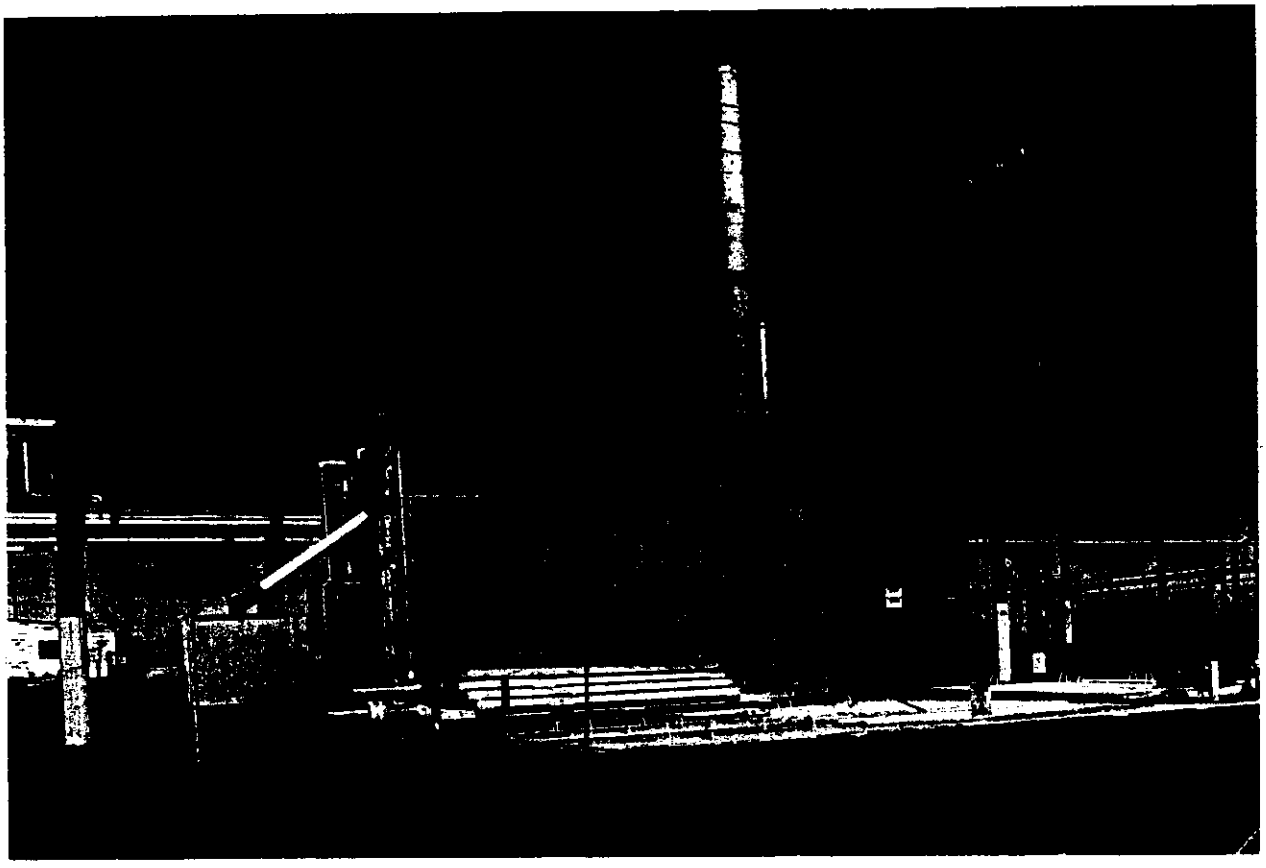
222-S Laboratory Complex
222-S Analytical Laboratory/Room 2-B
TSD Unit Boundary
(First Floor Plan)



NOT TO SCALE

RG97020139.1

222-S LABORATORY COMPLEX

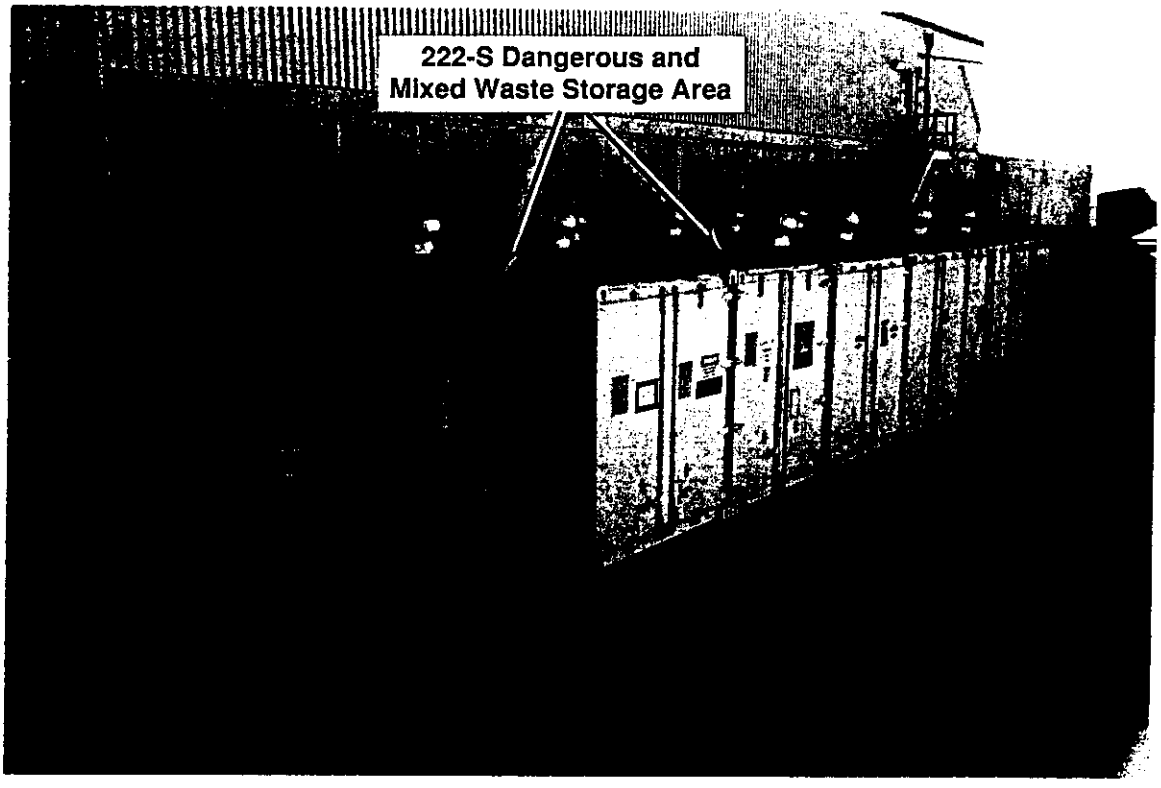


219-S WASTE HANDLING FACILITY

46°32'05"
119°37'13"

91092605-2CN
(PHOTO TAKEN 1991)

222-S LABORATORY COMPLEX DANGEROUS AND MIXED WASTE STORAGE AREA

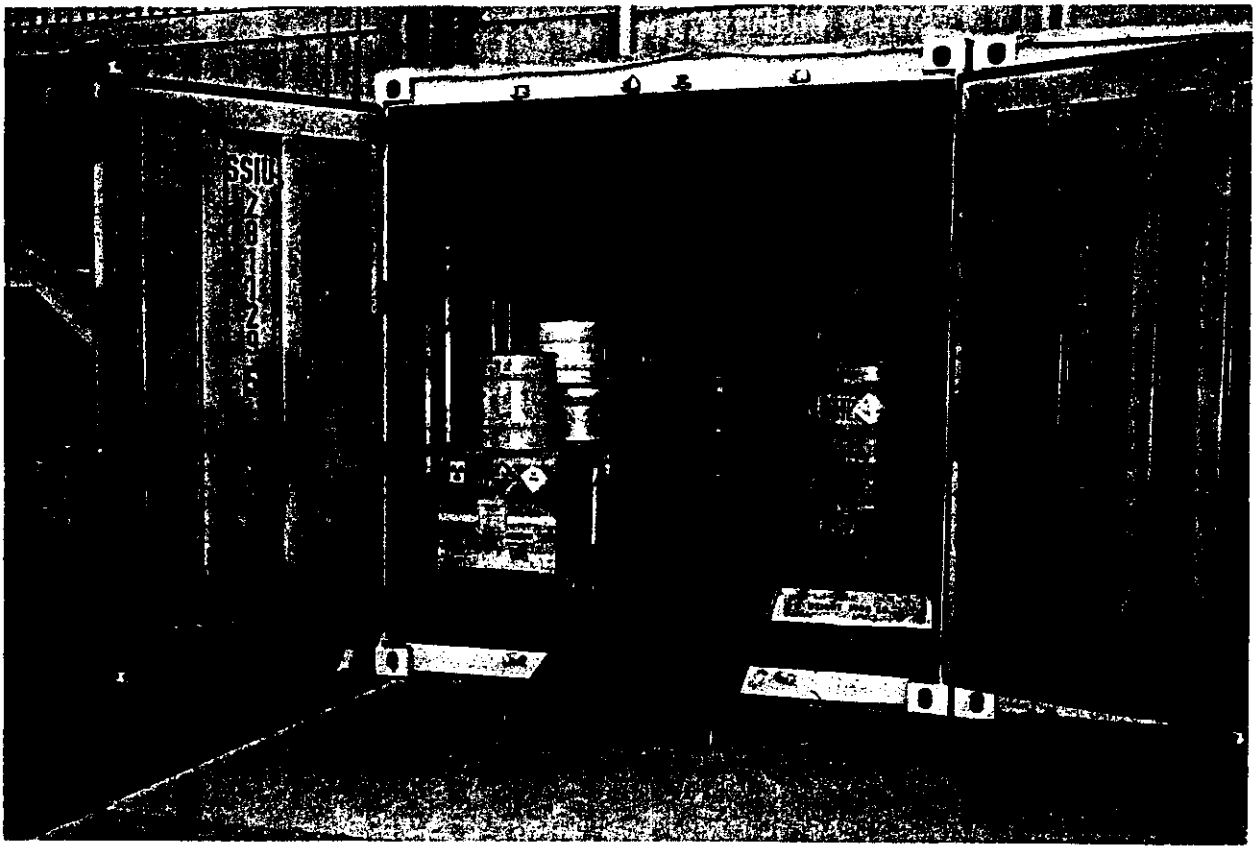


METAL STORAGE STRUCTURES ON STORAGE PAD

46°32'05"
119°37'13"

91022217-24CN
(PHOTO TAKEN 1991)

222-S LABORATORY COMPLEX DANGEROUS AND MIXED WASTE STORAGE AREA

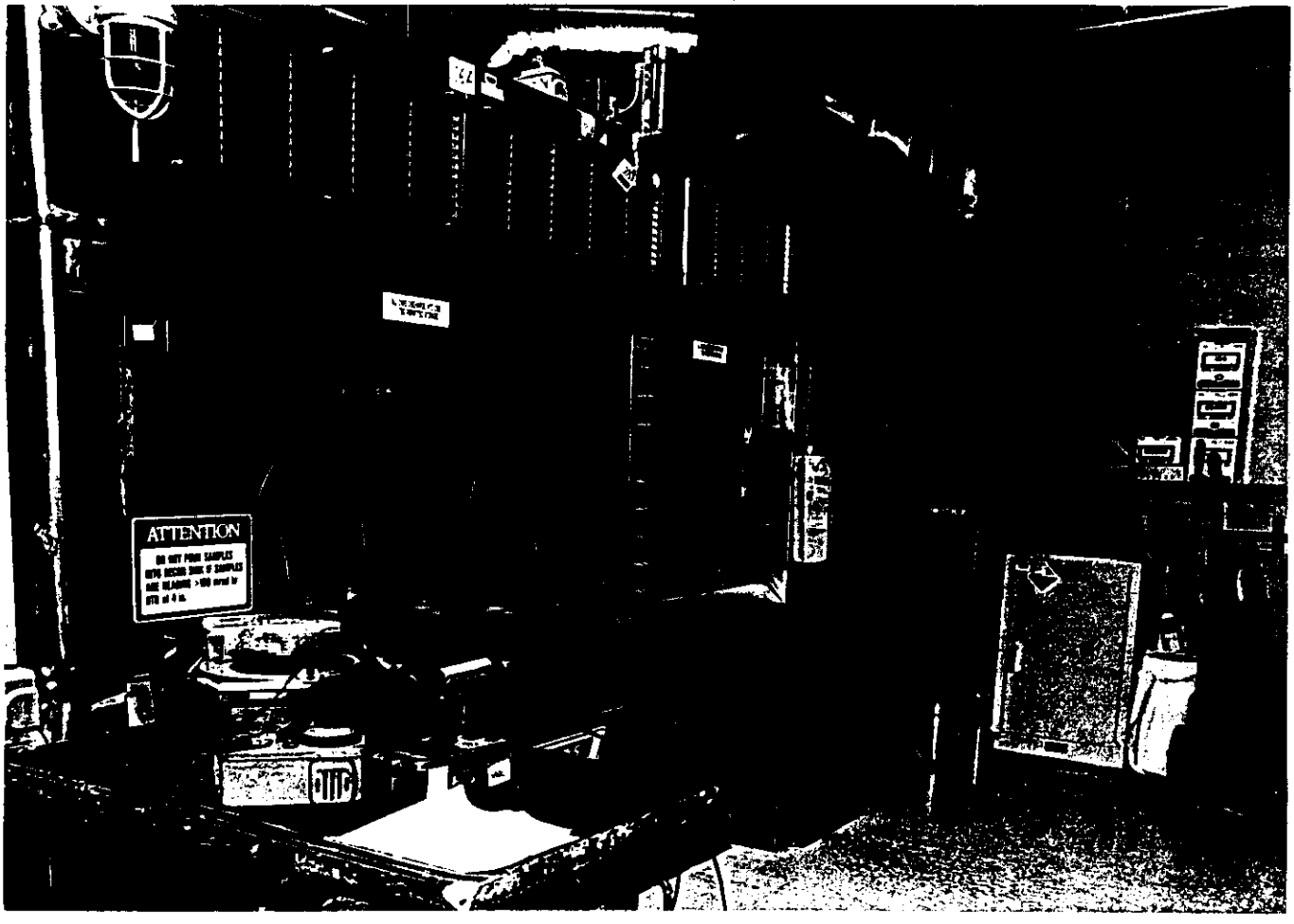


METAL STORAGE STRUCTURE INTERNAL VIEW

46°32'05"
119°37'13"

91022217-27CN
(PHOTO TAKEN 1991)

222-S LABORATORY COMPLEX
222-S ANALYTICAL LABORATORY



ROOM 2-B (HOOD FOR TRANSFER OF WASTE TO 219-S WASTE HANDLING FACILITY)

46°32'03"
119°37'15"

97020243-1CN
(PHOTO TAKEN 1997)

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

CONTENTS

VOLUME 1 OF 3

♦ = Revised this issue.

CONTENTS (cont)

♦ = Revised this issue.

CONTENTS (cont)

VOLUME 3 OF 4

♦ = Revised this issue.

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 character/inch).

FORM **3**

DANGEROUS WASTE PERMIT APPLICATION

1. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO. 0 3 | DAY 2 2 | YR. 4 3 * — FOR EXISTING FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

* The date construction of the Hanford Facility commenced

☐ 2. NEW FACILITY *(Complete item below)*

MO. | DAY | YR. — FOR NEW FACILITIES, PROVIDE THE DATE, *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☒ 2. FACILITY HAS A FINAL PERMIT

III. PROCESSES - CODES AND CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the *(Section III-C)*.

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D80	GALLONS OR LITERS
LANDFILL	D81	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D82	*ACRES OR HECTARES*
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING SECTION III *(shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons.* The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY 1. AMOUNT *(specify)*	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY 1. AMOUNT *(specify)*	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY
X-1	S02	600	G		5				
X-2	T03	20	E		6				
1	D81	174	F		7				
2	S01	10,000,000	L		8				
3					9				
4					10				

Continued from the front.

"I. PROCESSES (continued)

SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

Refer to the following page.

IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER - Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.

3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(If a code is not entered in D(1))*
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2			T 0 3 D 8 0	*Included with above*

FORM 3 DANGEROUS WASTE PERMIT APPLICATION
U.S. ENVIRONMENTAL PROTECTION AGENCY/STATE IDENTIFICATION NUMBER WA7890008967

Section III.C., Description of Process Codes listed in Section III.a.

D81

The Low-Level Burial Grounds (LLBG) began waste management operations in January of 1960. The LLBG comprise a landfill disposal unit (D81) and cover a total area of approximately 225 hectares (556 acres). The landfill is divided into eight burial grounds. Six burial grounds are located in the 200 West Area and two in the 200 East Area, as depicted on the attached drawings. The LLBG consist of lined and unlined trenches of various sizes and depths. All mixed waste destined for disposal in lined trenches will meet land disposal restriction requirements. The lined trenches consist of a double-liner leachate collection and removal system.

The process design capacity for mixed waste in the LLBG is 174 hectare-meters (2,275,819 cubic yards) of which 150 hectare-meters (1,961,913 cubic yards) is dedicated solely for the disposal of reactor compartment disposal packages.

S01

The greater-than-90-day container storage capability in mixed waste Trenches 31 and 34 of Burial Ground 218-W-5 provides a location to store various size containers of treated mixed waste in a Resource Conservation and Recovery Act (RCRA) compliant manner other than the Central Waste Complex. The placement of these containers in Trenches 31 and 34 eliminates the need to construct a mixed waste storage pad. This capability also reduces the need to transfer this waste prior to disposal. The process design capacity for storage of containers is estimated to be 10,000,000 liters (2,641,700 gallons).

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
1	D001	160,000,000	K	D81	Disposal
2	through				
3	D043				
4	WT01				
5	WT02				
6	WP01				
7	WP02				
8	WP03				
9	F001				
10	through				
11	F005				
12	F028				
13	F039				
14	W001				
15	U001				
16	through				
17	U012				
18	U014				
19	through				
20	U039				
21	U041				
22	through				
23	U053				
24	U055				
25	through				
26	U064				

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
1	U066		K	D81	Disposal (Continued)
2	through				
3	U099				
4	U101				
5	through				
6	U103				
7	U105				
8	through				
9	U174				
10	U176				
11	through				
12	U194				
13	U196				
14	U197				
15	U200				
16	through				
17	U223				
18	U225				
19	through				
20	U228				
21	U232				
22	through				
23	U240				
24	U243				
25	through				
26	U249				

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*

W	A	7	8	9	0	0	0	8	9	6	7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
1	U328		K	D81	Disposal (Continued)
2	U353				
3	U359				
4	P001				
5	through				
6	P018				
7	P020				
8	through				
9	P024				
10	P026				
11	through				
12	P031				
13	P033				
14	P034				
15	P036				
16	through				
17	P051				
18	P054				
19	P056				
20	through				
21	P060				
22	P062				
23	through				
24	P078				
25	P081				
26	P082				

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
1	P084		K	D81	Disposal (Continued)
2	P085				
3	P087				
4	through				
5	P089				
6	P092				
7	through				
8	P099				
9	P101				
10	through				
11	P116				
12	P118				
13	through				
14	P123				Included With Above
15	D004	10,000,000	K	S01	Storage-Container
16	through				
17	D043				
18	WT01				
19	WT02				
20	WP01				
21	WP02				
22	WP03				
23	W001				
24	F001				
25	through				
26	F005				

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: W A 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(If a code is not entered in D(1))*
1	F028		K	S01	Storage-Container (Continued)
2	U001				
3	through				
4	U012				
5	U014				
6	through				
7	U039				
8	U041				
9	through				
10	U053				
11	U055				
12	through				
13	U064				
14	U066				
15	through				
16	U099				
17	U101				
18	through				
19	U103				
20	U105				
21	through				
22	U174				
23	U176				
24	through				
25	U194				
26	U196				

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
1	U197		K	S01	Storage-Container (Continued)
2	U200				
3	through				
4	U223				
5	U225				
6	through				
7	U228				
8	U232				
9	through				
10	U240				
11	U243				
12	through				
13	U249				
14	U328				
15	U353				
16	U359				
17	P001				
18	through				
19	P018				
20	P020				
21	through				
22	P024				
23	P026				
24	through				
25	P031				
26	P033				

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008987

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
1	P034		K	S01	Storage-Container (Continued)
2	P036				
3	through				
4	P051				
5	P054				
6	P056				
7	through				
8	P060				
9	P062				
10	through				
11	P078				
12	P081				
13	P082				
14	P084				
15	P085				
16	P087				
17	through				
18	P089				
19	P092				
20	through				
21	P099				
22	P101				
23	through				
24	P116				
25					
26					

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(If a code is not entered in D(1))*
1	P118		K	S01	Storage-Container (Continued)
2	through		↓	↓	↓
3	P123		↓	↓	Included With Above
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

Continued from the front.

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The mixed waste disposed in the LLBG will consist of toxicity characteristic waste (D001 through D043), state-only waste (WT01, WT02, WP01, WP02, WP03, and W001), and listed waste from nonspecific sources (F001 through F005 and F039). Currently there is no mechanism in place to treat collected leachate with listed waste numbers other than F001 through F005. However, regulatorily acceptable alternatives for leachate management will allow for the disposal of other listed waste that include all "U," "P," and other "F" dangerous waste numbers. The reactor compartments in the 218-E-12B Burial Ground contain shielding constructed of metallic lead (state-only D008). Mixed waste could consist of up to 25 percent debris; however, this estimate could fluctuate as waste management needs dictate.

The mixed waste stored in the LLBG will consist of toxicity characteristic waste (D004 through D043), state-only waste (WT01, WT02, WP01, WP02, WP03, and W001), and listed waste from nonspecific sources (F001 through F005 and F028). Other waste that may be stored at the LLBG include all "U" and "P" dangerous waste numbers.

V. FACILITY DRAWING Refer to attached drawing(s).

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS Refer to attached photograph(s).

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawing(s) and photograph(s).

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*

VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

[ ] B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	John D. Wagoner	3/4/97

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

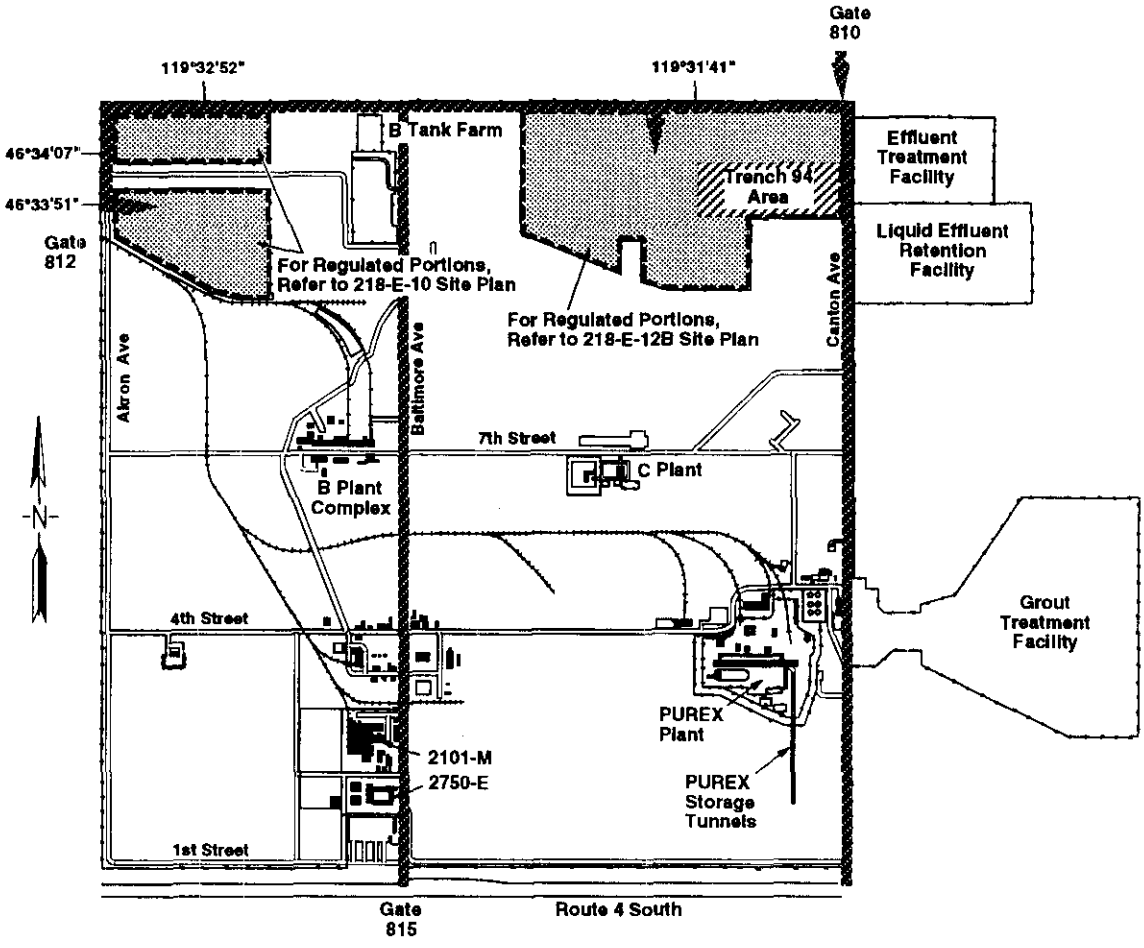
John D. Wagoner

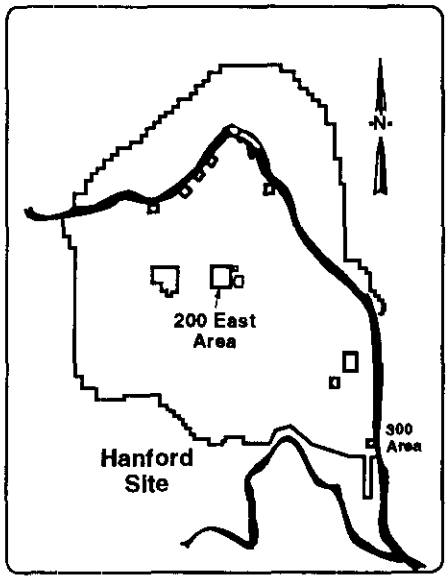
Owner/Operator
John D. Wagoner, Manager
U.S. Department of Energy
Richland Operations Office

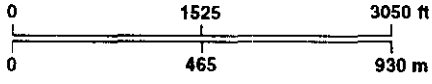
3/4/97
Date

Co-operator
H. J. Hatch,
President and Chief Executive Officer
Fluor Daniel Hanford, Inc.

3/3/97
Date







Regulated Burial Grounds

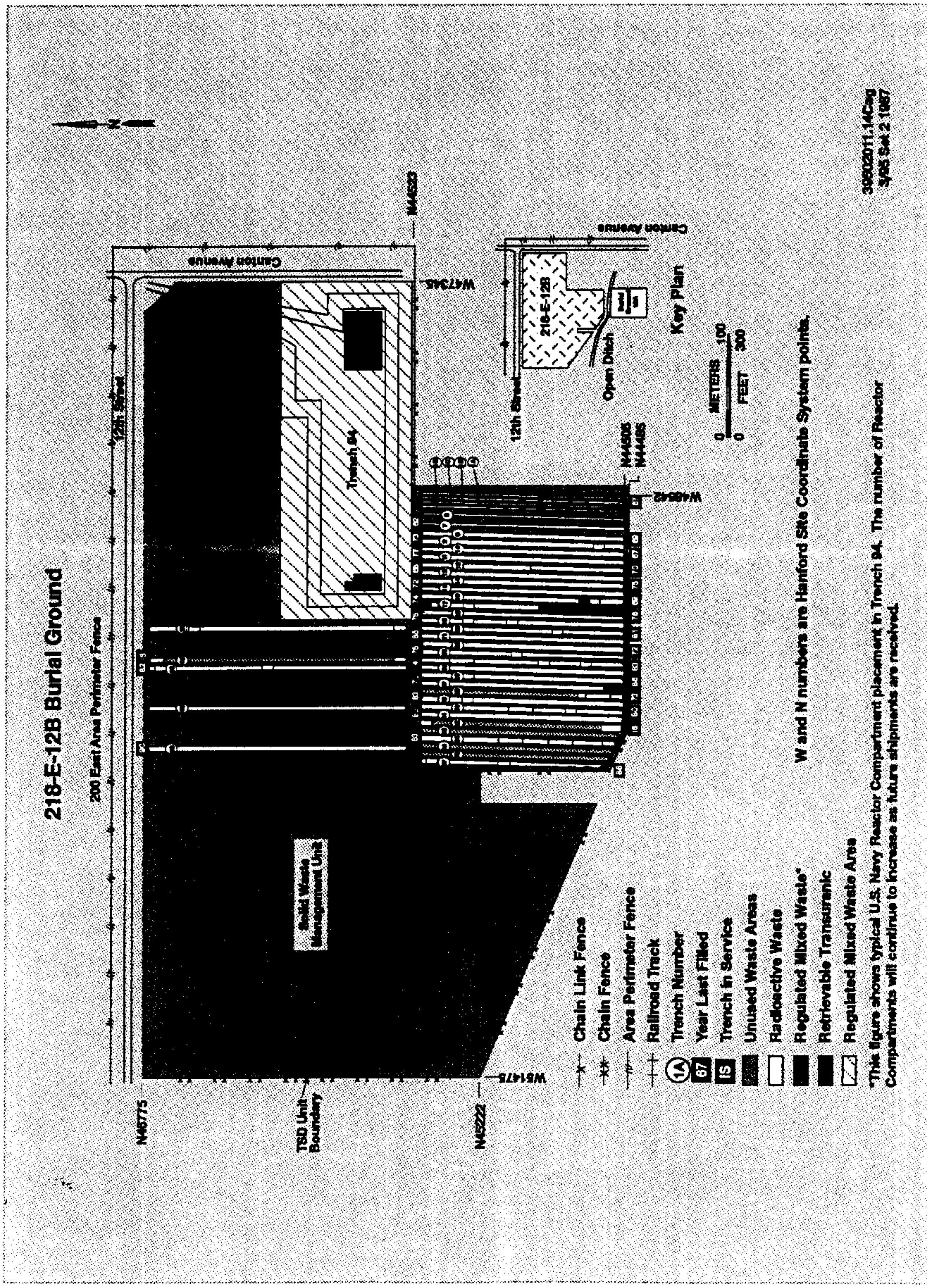
SWMU (Solid Waste Management Unit)

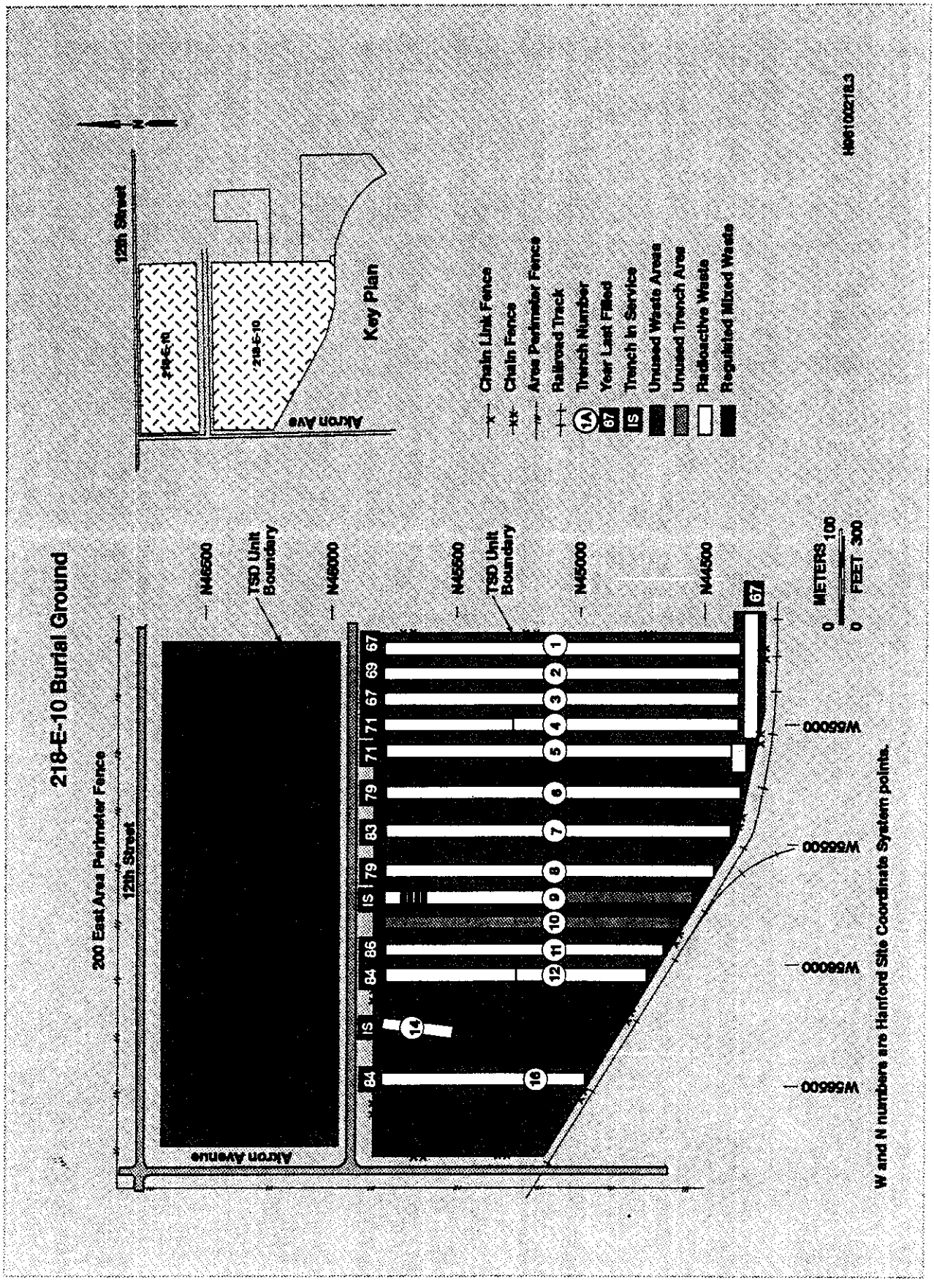
Waste Routes

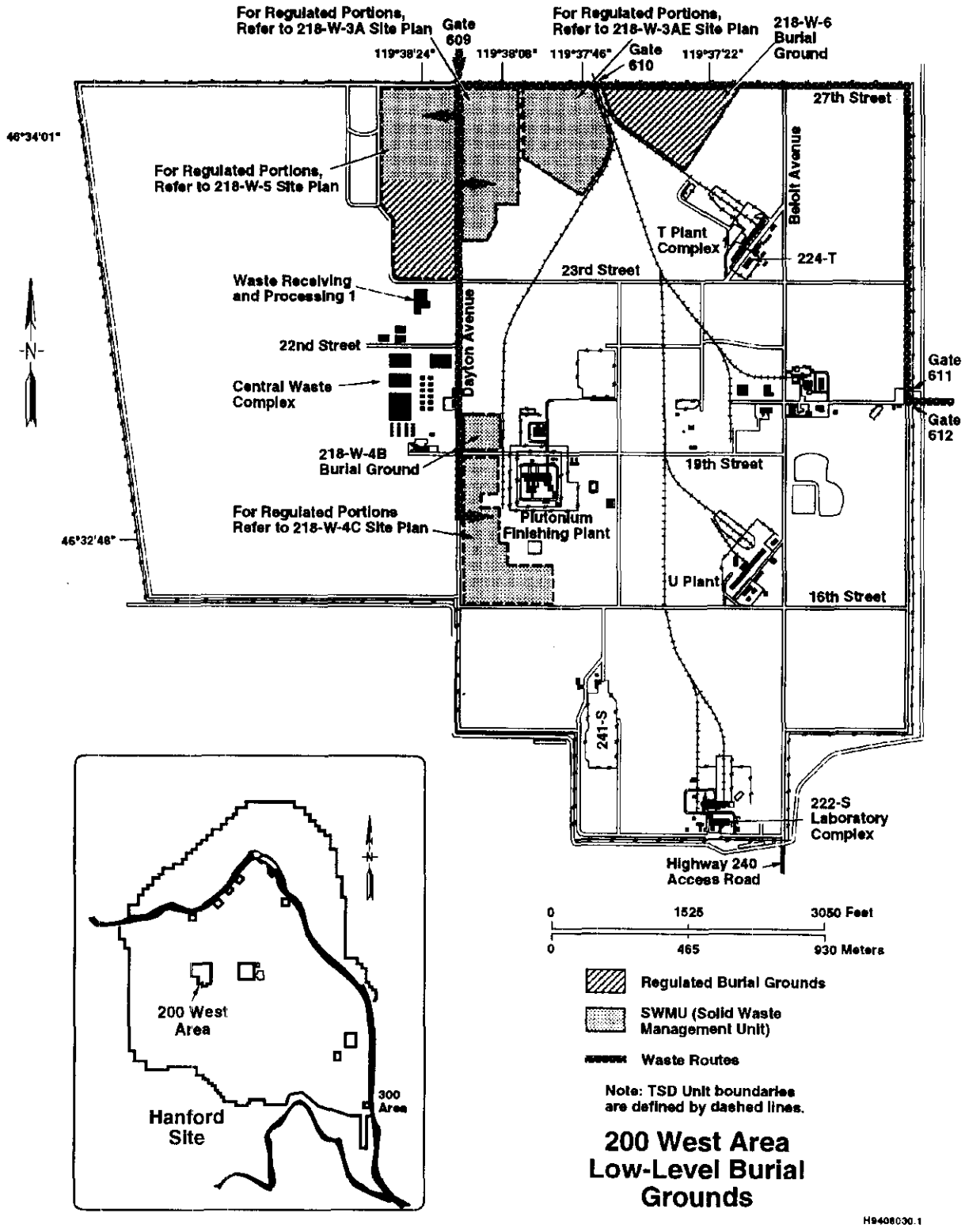
Note: TSD Unit boundaries are defined by dashed lines.

200 East Area Low-Level Burial Grounds

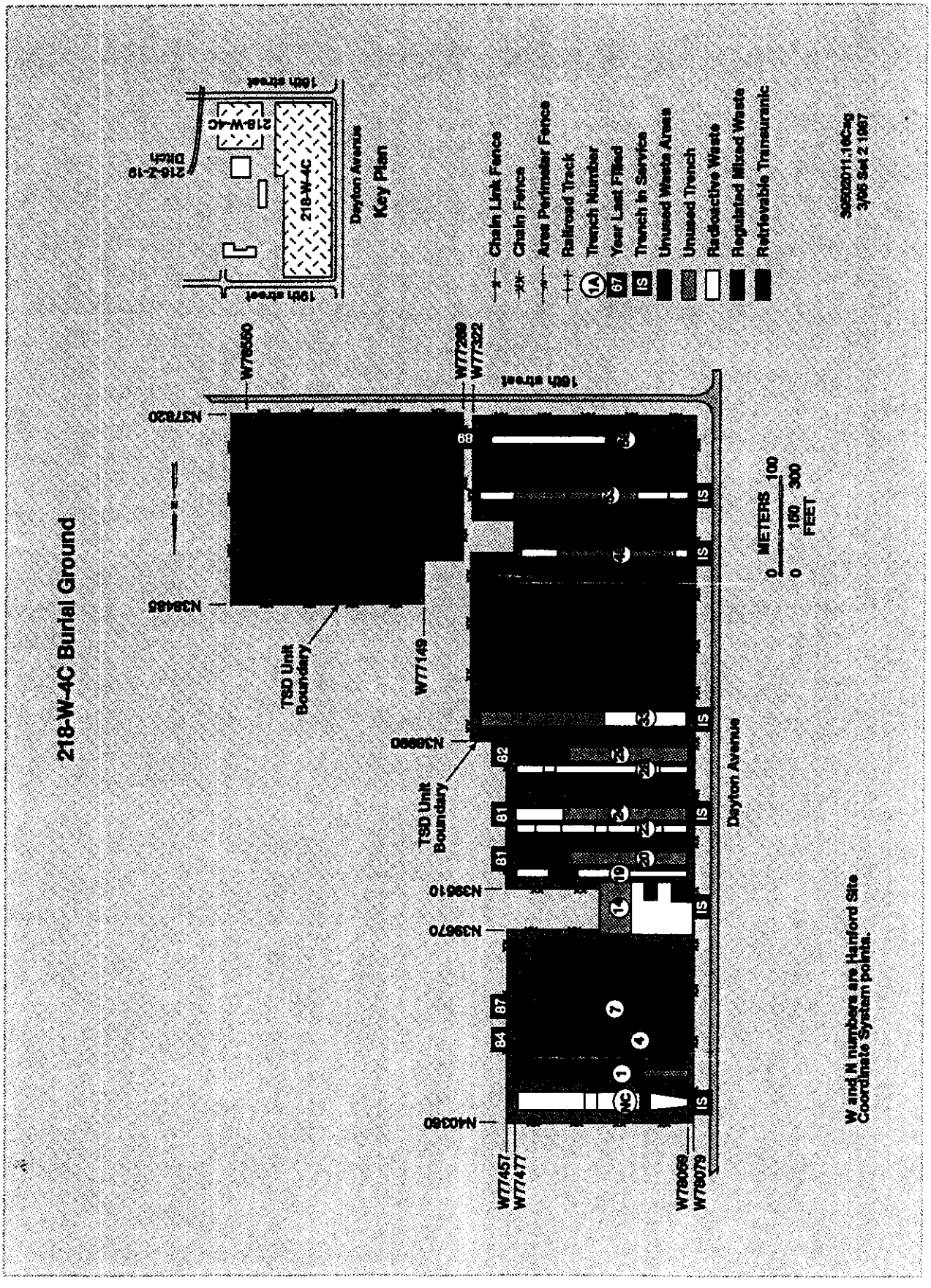
39407118.4

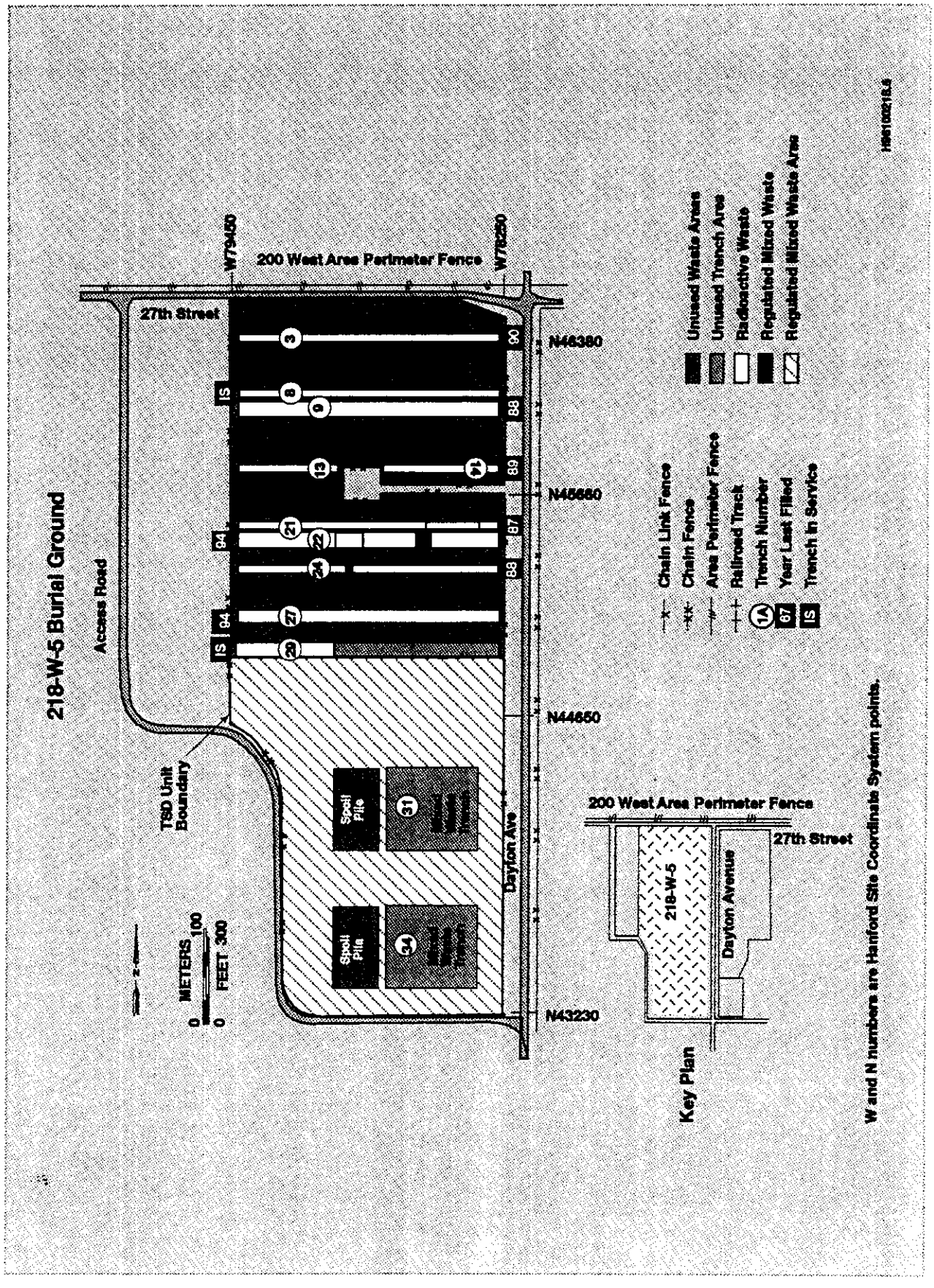

218-E-12B Burial Ground
200 East Area Perimeter Fence
12th Street
Canton Avenue
N45323
W47345
Trench 94
N44505
N44485
W46542
Solid Waste Management Unit
N46775
TSD Unit Boundary
N45222
W51475
218-E-12B
Open Ditch
12th Street
Canton Avenue
Key Plan
METERS
FEET
Chain Link Fence
Chain Fence
Area Perimeter Fence
Railroad Track
Trench Number
Year Last Filled
Trench in Service
Unused Waste Areas
Radioactive Waste
Regulated Mixed Waste*
Retrievable Transuranic
Regulated Mixed Waste Area
*This figure shows typical U.S. Navy Reactor Compartment placement in Trench 94. The number of Reactor Compartments will continue to increase as future shipments are received.
W and N numbers are Hanford Site Coordinate System points.
39502011.14Cag
3/95 Set 2 1987


218-E-10 Burial Ground
200 East Area Perimeter Fence
12th Street
Akron Avenue
TSD Unit Boundary
N46500
N46000
N45500
N45000
N44500
W56600
W56500
W56400
W56300
67
69
67
71
71
79
83
79
IS
86
84
IS
84
IS
1
2
3
4
5
6
7
8
9
10
11
12
14
16
0 METERS 100
0 FEET 300
W and N numbers are Hanford Site Coordinate System points.
Key Plan
12th Street
Akron Ave
218-E-10
218-E-10
Chain Link Fence
Chain Fence
Area Perimeter Fence
Railroad Track
Trench Number
Year Last Filled
Trench in Service
Unused Waste Areas
Unused Trench Area
Radioactive Waste
Regulated Mixed Waste
H9810027B.3

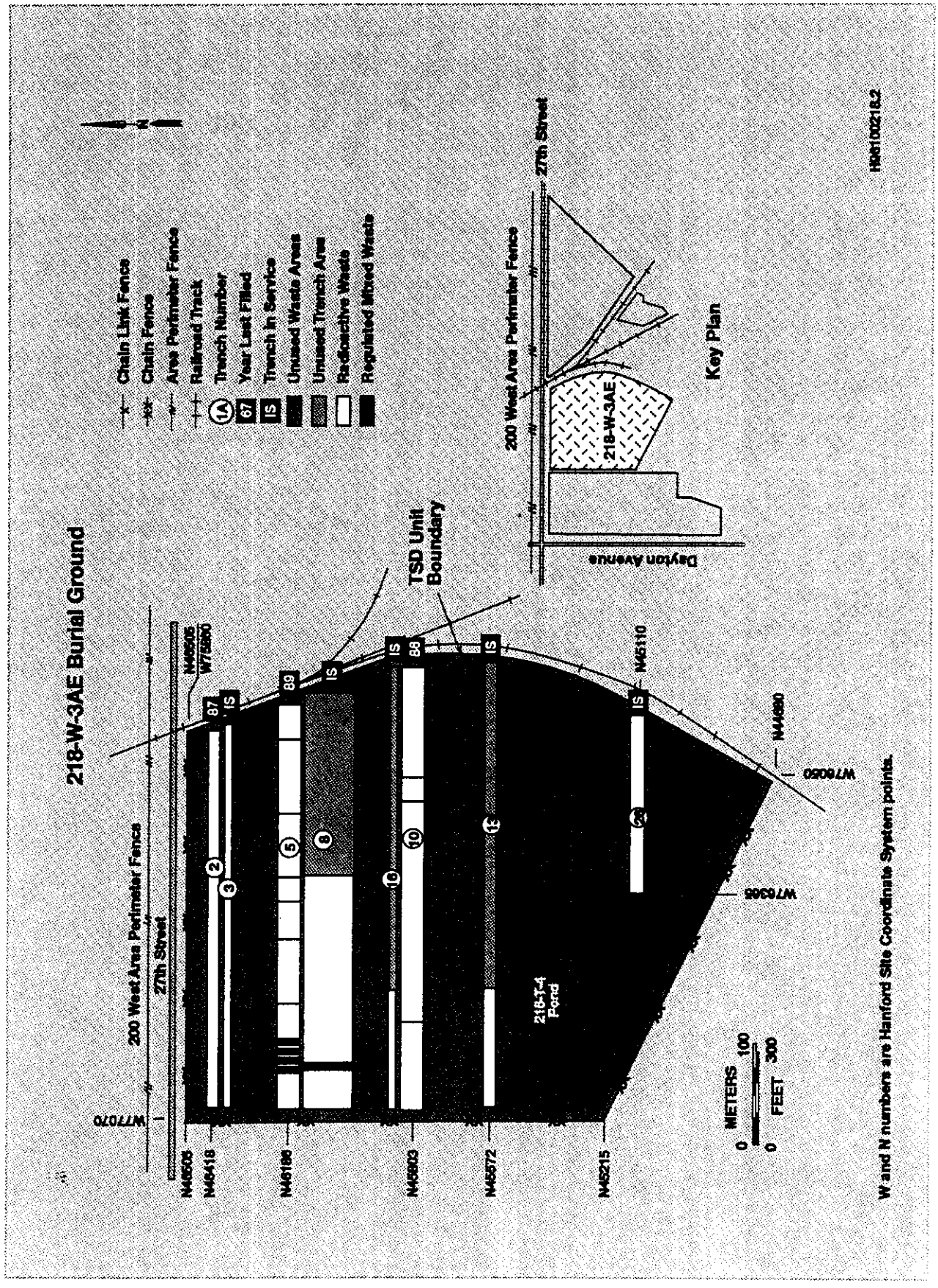

For Regulated Portions, Refer to 218-W-3A Site Plan
Gate 609
For Regulated Portions, Refer to 218-W-3AE Site Plan
218-W-6 Burial Ground
Gate 610
119°38'24"
119°38'08"
119°37'46"
119°37'22"
46°34'01"
For Regulated Portions, Refer to 218-W-5 Site Plan
27th Street
Beloit Avenue
T Plant Complex
224-T
23rd Street
Waste Receiving and Processing 1
Dayton Avenue
22nd Street
Central Waste Complex
Gate 611
Gate 612
218-W-4B Burial Ground
19th Street
For Regulated Portions Refer to 218-W-4C Site Plan
Plutonium Finishing Plant
46°32'48"
U Plant
16th Street
241-S
222-S Laboratory Complex
Highway 240 Access Road
N
0
1525
3050 Feet
0
465
930 Meters
Regulated Burial Grounds
SWMU (Solid Waste Management Unit)
Waste Routes
Note: TSD Unit boundaries are defined by dashed lines.
200 West Area
Hanford Site
300 Area
200 West Area Low-Level Burial Grounds
H9408030.1

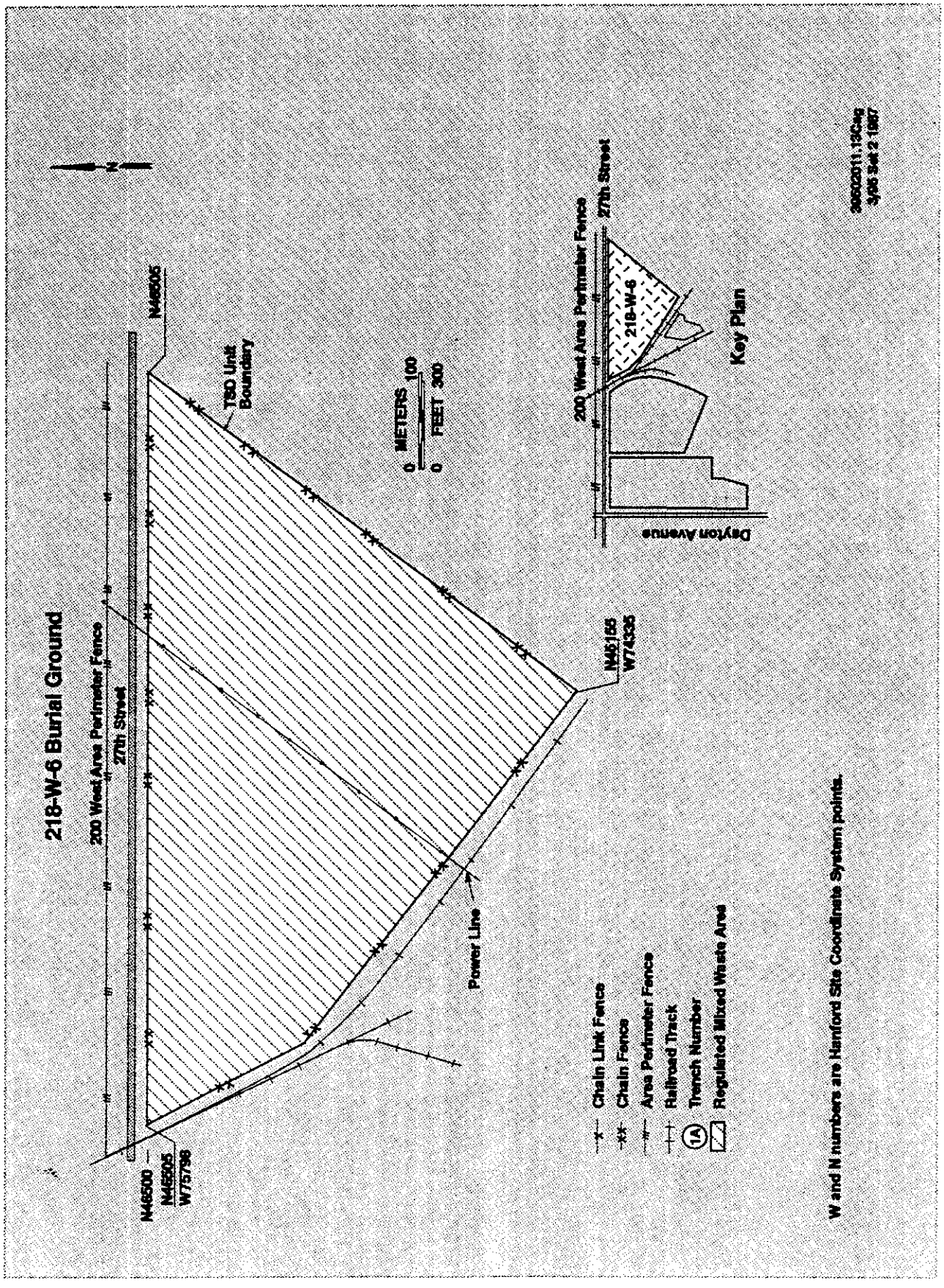
218-W-4B Burial Ground
Key Plan
TSD Unit Boundary
Chain Link Fence
Chain Fence
Area Perimeter Fence
Railroad Track
Trench Number
Caisson
Year Last Filled
Unused Waste Areas
Unused Trench Area
Radioactive Waste
Retrievable Transuranic
METERS
FEET
W and N numbers are Hanford Site Coordinate System points.


218-W-4C Burial Ground
Key Plan
Dayton Avenue
16th street
218-W-4C
218-Z-19 Ditch
Chain Link Fence
Chain Fence
Area Perimeter Fence
Railroad Track
Trench Number
Year Last Filled
Trench in Service
Unused Waste Areas
Unused Trench
Radioactive Waste
Regulated Mixed Waste
Retrievable Transuranic
3/06 Set 2 1997
W76500
W77208
W77322
N37820
N38435
TSD Unit Boundary
W77149
N38950
N39610
N39670
N40380
W77457
W77477
W78058
W78079
W and N numbers are Hanford Site Coordinate System points.
METERS 0 100
FEET 0 150 300

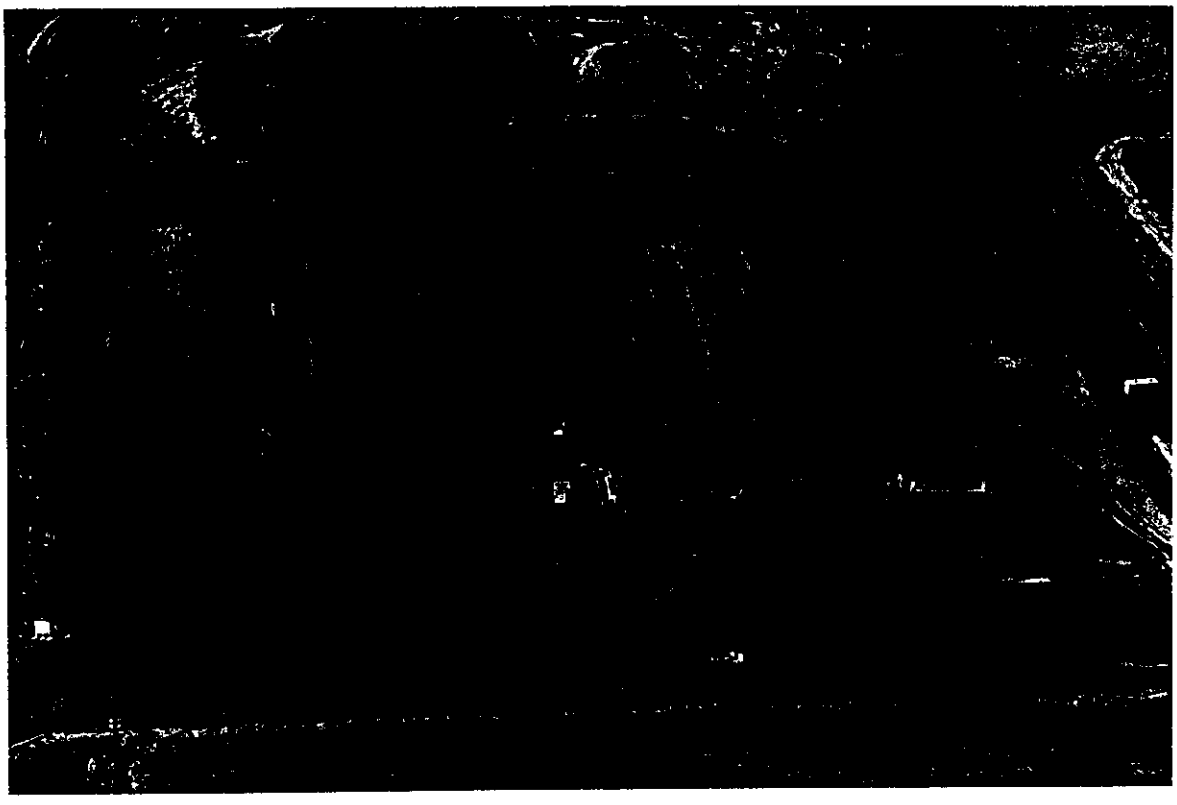

218-W-5 Burial Ground
Access Road
27th Street
200 West Area Perimeter Fence
W79400
W78250
N46380
N45660
N44650
N43230
Dayton Ave
TSD Unit Boundary
Spoil Pile
Spoil Pile
METERS 100
FEET 300
Unused Waste Area
Unused Trench Area
Radioactive Waste
Regulated Mixed Waste
Regulated Mixed Waste Area
Chain Link Fence
Chain Fence
Area Perimeter Fence
Railroad Track
Trench Number
Year Last Filled
Trench in Service
Key Plan
200 West Area Perimeter Fence
27th Street
218-W-5
Dayton Avenue
W and N numbers are Hanford Site Coordinate System points.

218-W-3A Burial Ground
TSD Unit Boundary
Key Plan
W77000
N4000
Burial Ground 218-W-3A
N43540.10
Dayton Road
200 West Area Perimeter Fence
27th Street
W78020
N48500
0 METERS 100
0 FEET 300
Chain Link Fence
Chain Fence
Area Perimeter Fence
Railroad Track
Trench Number
Year Last Filled
Trench In Service
Unused Waste Areas
Unused Trench Area
Radioactive Waste
Retrievable Transuranic
Regulated Mixed Waste
W and N numbers are Hanford Site Coordinate System points.
H9810021B.1


218-W-3AE Burial Ground
Chain Link Fence
Chain Fence
Area Perimeter Fence
Railroad Track
Trench Number
Year Last Filled
Trench In Service
Unused Waste Areas
Unused Trench Area
Radioactive Waste
Regulated Mixed Waste
200 West Area Perimeter Fence
27th Street
TSD Unit Boundary
218-W-3AE
Key Plan
Dayton Avenue
218-E-4 Pond
W770170
N46505
W75850
N46418
N46186
N45803
N45572
N45215
N45110
N44920
W76050
W76305
METERS 0 100
FEET 0 300
W and N numbers are Hanford Site Coordinate System points.
H9610021E2


218-W-6 Burial Ground
200 West Area Perimeter Fence
27th Street
N46505
TSD Unit Boundary
N46500 —
N46505
W75798
METERS 100
0
FEET 300
0
Power Line
N46165
W74335
Chain Link Fence
Chain Fence
Area Perimeter Fence
Railroad Track
Trench Number
Regulated Mixed Waste Area
W and N numbers are Hanford Site Coordinate System points.
200 West Area Perimeter Fence
27th Street
218-W-6
Key Plan
Dayton Avenue
30002011.13Cag
3/96 Sat 2 1997

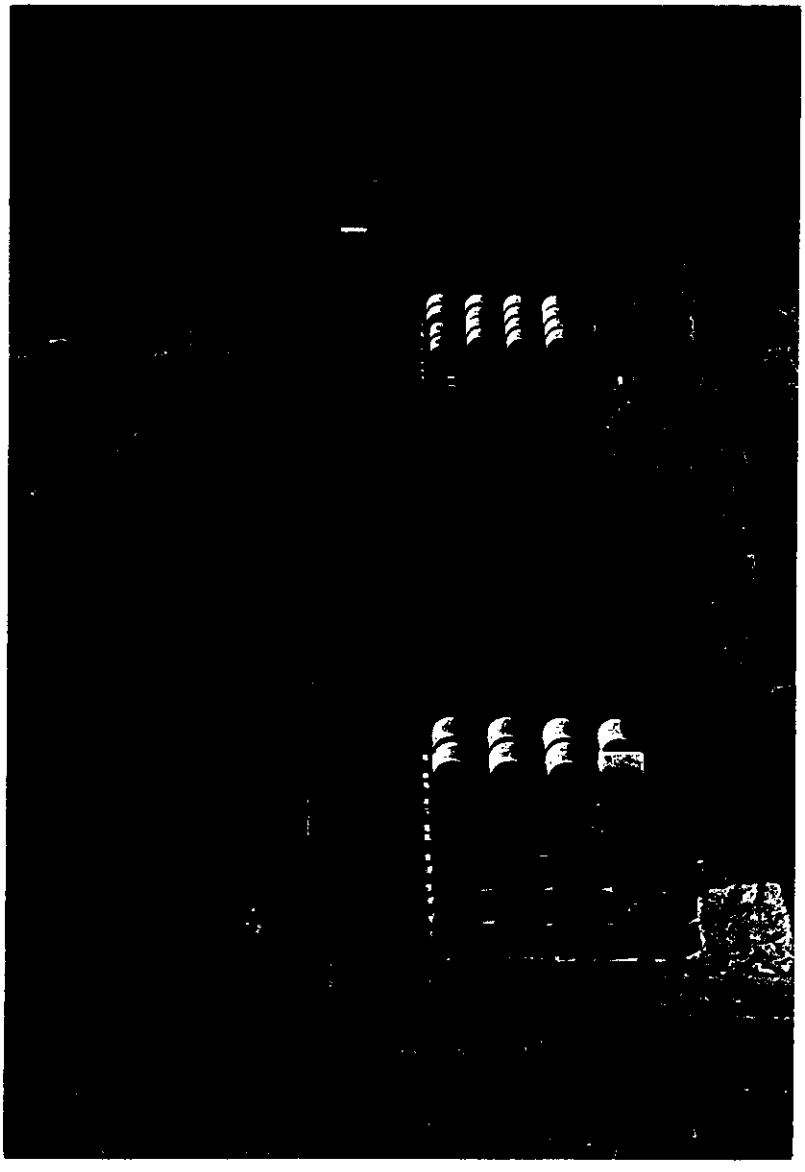
TYPICAL LINED MIXED WASTE TRENCH (TRENCH 34) 218-W-5/200 WEST AREA



46°33'36"
119°38'24"

95030469-44CN
(PHOTO TAKEN 1995)

REACTOR COMPARTMENT TRENCH 94



46°33'58"
119°31'06"

95030469-5CN
(PHOTO TAKEN 1995)

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

CONTENTS

VOLUME 1 OF 3

♦ = Revised this issue.

CONTENTS (cont)

♦ = Revised this issue.

CONTENTS (cont)

VOLUME 3 OF 3

♦ = Revised this issue.

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 character/inch).

FORM **3**

DANGEROUS WASTE PERMIT APPLICATION

1. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO.	DAY	YR.
0 3	2 2	4 3

* FOR EXISTING FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

* The date construction of the Hanford Facility commenced.

☐ 2. NEW FACILITY *(Complete item below)*

MO.	DAY	YR.

FOR NEW FACILITIES, PROVIDE THE DATE *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☐ 1. FACILITY HAS AN INTERIM STATUS PERMIT

☒ 2. FACILITY HAS A FINAL PERMIT

III. PROCESSES - CODES AND CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the *(Section III-C)*.

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D80	GALLONS OR LITERS
LANDFILL	D81	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D82	*ACRES OR HECTARES*
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING SECTION III *(shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons.* The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY 1. AMOUNT *(specify)*	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY 1. AMOUNT *(specify)*	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	S 0 1	108,395	L		7				
2					8				
3					9				
4					10				

Continued from the front.

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

S01

The 616 Nonradioactive Dangerous Waste Storage Facility (616 NRDWSF) began waste management operations in September of 1986. The 616 NRDWSF is located between the 200 East and 200 West Areas of the Hanford Facility. The 616 NRDWSF provides container storage for nonradioactive dangerous waste generated in the research and development laboratories, process operations, construction, waste site cleanup/remediation, environmental monitoring, maintenance, and transportation functions throughout the Hanford Facility and approved offsite facilities. Waste is only stored at the 616 NRDWSF until arrangements can be made to ship the waste to an offsite treatment, storage, and/or disposal facility. The 616 NRDWSF stores nonradioactive dangerous waste in containers that meet U.S. Department of Transportation or equivalent requirements.

The maximum process design capacity for container storage at the 616 NRDWSF is 108,395 liters (28,635 gallons).

IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER - Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE
POUNDS	P
TONS	T

METRIC UNIT OF MEASURE	CODE
KILOGRAMS	K
METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 6 4	900	P	T03 D80	
X-2	D 0 0 2	400	P	T03 D80	
X-3	D 0 0 1	100	P	T03 D80	
X-4	D 0 0 2			T03 D80	included with above

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008987

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1	D001	65,000	K	S01	Storage-Container
2	D002	50,000			
3	D003	5,000			
4	D004	↓			
5	D005	↓			
6	D006	20,000			
7	D007	35,000			
8	D008	30,000			
9	D009	17,000			
10	D010	5,000			
11	through	↓			
12	D043	↓			
13	WSC2	1,000			
14	WP01	24,000			
15	WP02	5,000			
16	WP03	4,000			
17	WT01	80,000			
18	WT02	114,000			
19	F001	4,000			
20	F002	13,000			
21	F003	26,000			
22	F004	3,000			
23	F005	26,000			
24	F006	500	↓	↓	↓
25					
26					

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	F007	500	K	S01	Storage-Container (Cont.)
2	F008				
3	through				
4	F012				
5	F019				
6	through				
7	F026				
8	F027	800			
9	F028	500			
10	W001	2,500			
11	P001	500			
12	through				
13	P018				
14	P020				
15	through				
16	P024				
17	P026				
18	through				
19	P031				
20	P033				
21	P034				
22	P036				
23	through				
24	P051				
25	P054				
26	P056				

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*

W	A	7	8	9	0	0	0	8	9	8	7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. *(enter code)*	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE *(enter code)*	D. PROCESSES 1. PROCESS CODES *(enter)*	D. PROCESSES 2. PROCESS DESCRIPTION *(if a code is not entered in D(1))*
1	P060	500	K	S01	Storage-Container (Cont.)
2	P062				
3	through				
4	P078				
5	P081				
6	P082				
7	P084				
8	P085				
9	P087				
10	P088				
11	P089				
12	P092				
13	through				
14	P099				
15	P101				
16	through				
17	P116				
18	P118				
19	through				
20	P123				
21	U001				
22	U002	1,000			
23	U003	1,000			
24	U004	500			
25	through				
26	U012				

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U014	500	K	S01	Storage-Container (Cont.)
2	U015				
3	through				
4	U031	▼			
5	U032	1,000			
6	U033	500			
7	through				
8	U039				
9	U041				
10	U042				
11	U043	▼			
12	U044	1,000			
13	U045	500			
14	through				
15	U050	▼			
16	U051	2,000			
17	U052	500			
18	U053				
19	U055				
20	through				
21	U064				
22	U066				
23	through				
24	U099				
25	U101				
26	U102	▼	▼	▼	▼

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1	U103	500	K	S01	Storage-Container (Cont.)
2	U105				
3	through				
4	U132				
5	U133	2,000			
6	U134	1,000			
7	U135	500			
8	through				
9	U138				
10	U140				
11	through				
12	U144				
13	U145	1,000			
14	U146	500			
15	through				
16	U150				
17	U151	3,000			
18	U152	500			
19	U153	500			
20	U154	1,000			
21	U155	500			
22	through				
23	U174				
24	U176				
25	through				
26	U194				

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1	U196	500	K	S01	Storage-Container (Cont.)
2	U197				
3	U200				
4	through				
5	U222				
6	U223	1,500			
7	U225	1,500			
8	U226	3,000			
9	U227	500			
10	U228	1,000			
11	U232	500			
12	U233	500			
13	U234	500			
14	U235	1,000			
15	U236	1,000			
16	U237	1,000			
17	U238	500			
18	U239	1,000			
19	U240	5,000			
20	U243	500			
21	U244	1,000			
22	U245	500			
23	through				
24	U249				
25					
26					

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER *(entered from page 1)*: WA7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1	U328	500	K	S01	Storage-Container (Cont.)
2	U353	↓	↓	↓	↓
3	U359	↓	↓	↓	Included With Above
4					
5					
6					
7					
8					
9					
10					
11					
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24					
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26					

Continued from the front.

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The 616 NRDWSF is used for the storage of nonradioactive dangerous waste generated on the Hanford Facility and approved offsite facilities. The waste could consist of listed waste, waste from nonspecific sources, characteristic waste, and state-only waste.

V. FACILITY DRAWING Refer to attached drawing(s).

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS Refer to attached photograph(s)

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawing(s) and photograph(s).

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*

VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	John D. Wagoner	3/4/97

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

John D. Wagoner — 3/4/97

Owner/Operator
John D. Wagoner, Manager
U.S. Department of Energy
Richland Operations Office

Date

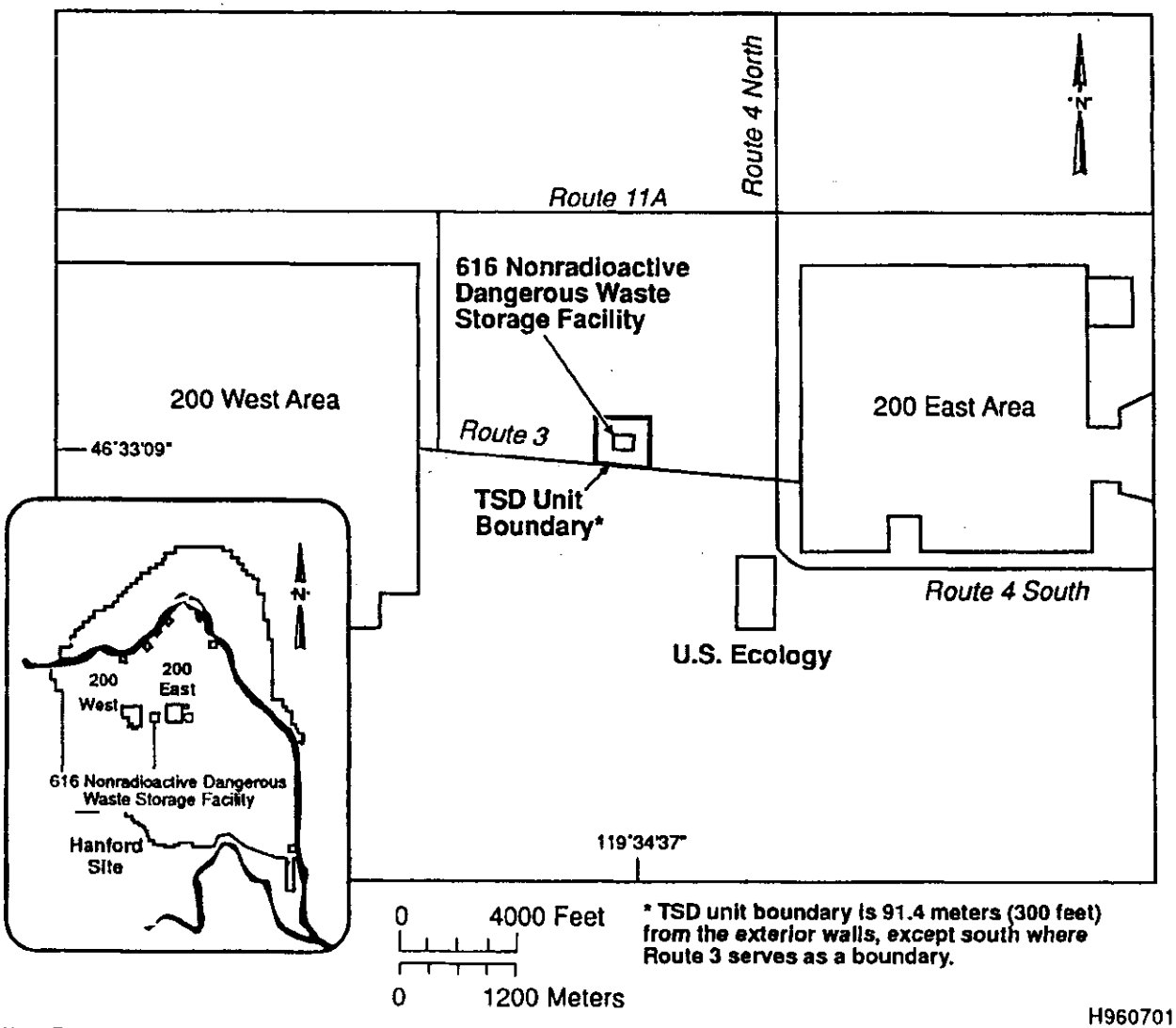
3/3/97

Co-operator
H. J. Hatch,
President and Chief Executive Officer
Fluor Daniel Hanford, Inc.

Date

616 Nonradioactive Dangerous Waste Storage Facility

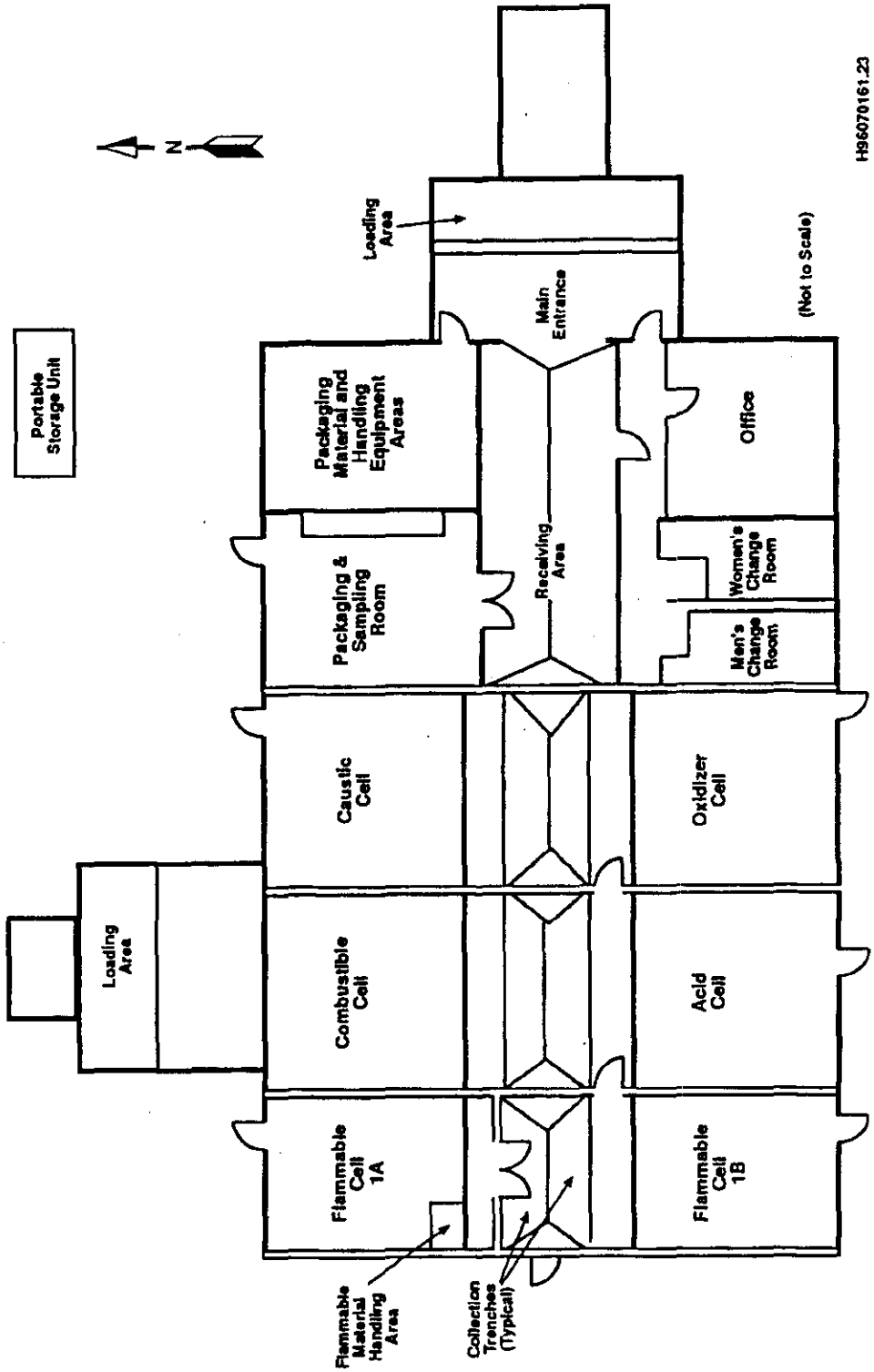
Site Plan



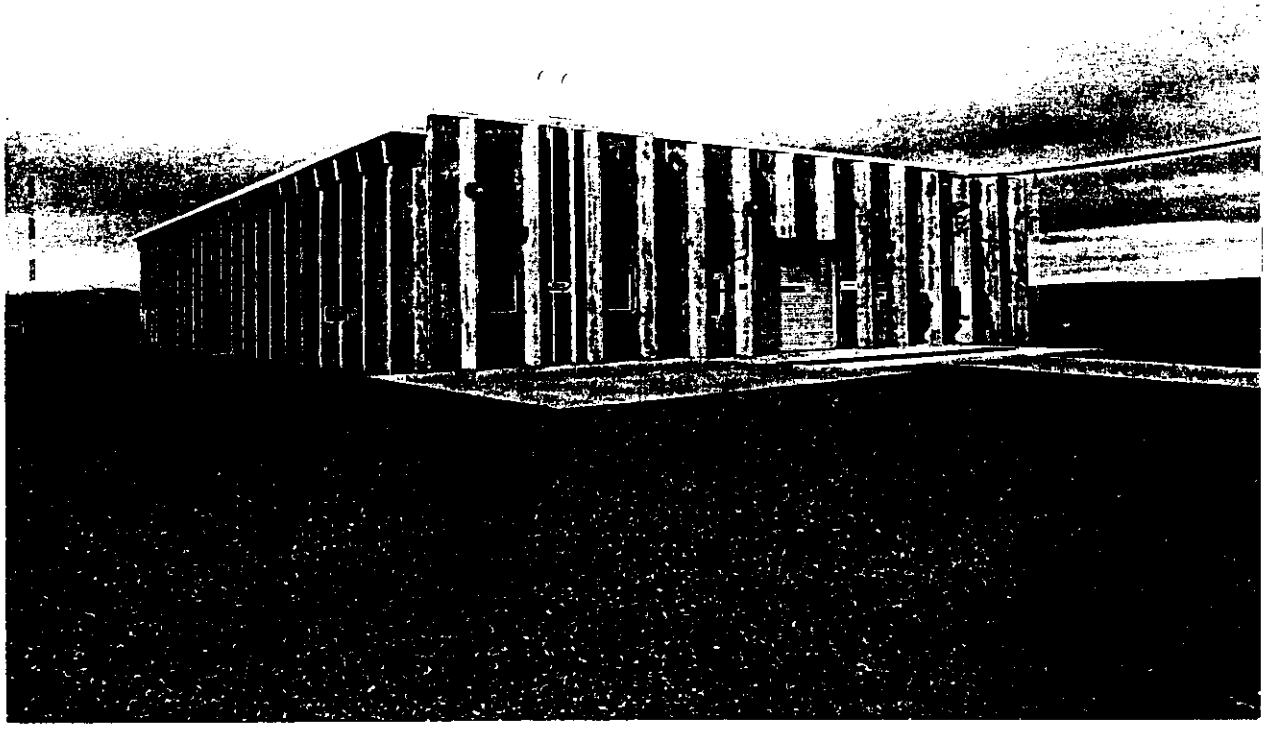
H96070161.8

Note: To convert feet to meters, multiply by 0.3048.
To convert inches to centimeters, mulitply by 2.54.

616 Nonradioactive Dangerous Waste Storage Facility Floor Plan



616 NONRADIOACTIVE DANGEROUS WASTE STORAGE FACILITY



46°33'09"
119°34'37"

8700742-42CN
(PHOTO TAKEN 1987)